NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA
OBLIGATIONS TO EDUCATIONAL INSTITUTIONS

CUMULATIVE FY 1959 THROUGH FY 1969

FACILITY FORM 602

N71-73362
(ACCESSION NUMBER)

(THRU)

208
(PAGES)

(CODE)

TMX 67175
(NASA CR OR TMX OR AD NUMBER)

(CATEGORY)

NASA Headquarters, Office of University Affairs, Washington, D. C. 20546

Issued: December 1969

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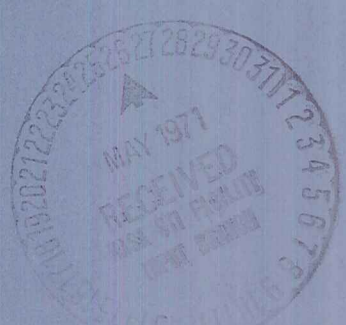

National Aeronautics and Space Administration

NASA OBLIGATIONS TO EDUCATIONAL INSTITUTIONS

Cumulative FY 1959 Through FY 1969

Office of University Affairs
Management Information System

December 1969

NOTICE

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NASA OBLIGATIONS TO EDUCATIONAL INSTITUTIONS

Cumulative FY 1959 Through FY 1969

P R E F A C E

The University Program Management Information System (MIS), operated by the Office of University Affairs, was created to provide data needed for analyzing the history of support to universities: for reviewing technical and financial trends in sponsored research: and for decision-making regarding the future course of NASA's university relationships. In addition to the present report, other information available from the MIS includes "NASA's University Program" and data required by the Committee on Academic Science and Engineering of the Federal Council for Science and Technology.

The data in this report are organized primarily for program evaluation purposes, i.e., the report is oriented to technical policy-makers and program managers, rather than to financial managers. However, as the data are derived from basic agency records (the Status of Contracts and Grants (SCAG) System), reported obligations are consistent with accounting records. Any apparent discrepancies between this report and either NASA procurement or fiscal reports stem, therefore, from the selection criteria for the data and the arrangement of the tables. The main difference is that this document reports only R&D-related obligations to degree-granting educational institutions; these obligations account for about 99% of the funds awarded.

We would like the information in this report to be of maximum usefulness to you. Suggestions for improvements would be particularly appreciated. Comments or inquiries should be directed to W. A. Greene, Chief, Coordination Branch, Office of University Affairs, NASA Headquarters, Washington, D.C. 20546, Telephone: 202-962-3104.

F. B. Smith
Assistant Administrator
for University Affairs

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USER'S GUIDE

This report is produced in two parts: a cumulative version (Cum. Tables I-VIII), which is an overview of NASA-university relationships since 1959 and a fiscal year version (FY Tables XI-XVIII), which includes only current fiscal year activity. The documents are identically organized in tabular content and format to permit ready comparison and detection of any significant recent departures from the trends of the past several years.

The data are confined to obligations to U. S. degree-granting educational institutions, including the operationally affiliated "educational nonprofit" organizations which are integral parts of colleges and universities. As an exception, obligations to foreign institutions appear at the end of Cum. Table IV and FY Table XIV.

Obligations reported in the tables cover all types of R&D-related support to educational institutions, including obligations for onboard flight experiments, facilities and student training for furtherance of research efforts and dissemination of results and information resulting from NASA sponsored efforts: excluded are obligations for training of NASA employees; for miscellaneous non-research purchases and services, generally under $2,500; and for operation of Federally Funded Research and Development Centers (FFRDC's).

Congressional districts are indicated by the numbers immediately following the institution names in Cum. Table IV and FY Table XIV.

Obligations for both on-campus and off-campus research, regardless of the state or country in which it is performed, are consolidated within a single institutional name, listed under the region, state or country in which the main campus is located.

Obligations in the cumulative report are net, i.e., de-obligations have been subtracted so the report reflects the total amount of money NASA has made available to institutions during the period covered. The fiscal year report, on the other hand, is designed to show the magnitude of obligations for a particular year. Hence, the fiscal year total is not reduced by subtraction of any de-obligated prior year funds. Columns in Cum. Table II and FY Table XII may not add exactly due to rounding.

Detailed information on individual grants and contracts at specific institutions may be found in a separate document, "NASA's University Program, Quarterly Report of Active Grants and Research Contracts", available from the Office of University Affairs.

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SUMMARY

NASA OBLIGATIONS TO EDUCATIONAL INSTITUTIONS

Cumulative FY 1959 Through FY 1969

		Number of Institutions
Domestic Institutions		
Project Research	$582.1M	245
Sustaining University Program	214.9	164
Apollo Guidance (MIT)	120.9	1
Foreign Institutions	10.2	27
Total (284 Institutions)	$928.1M	

**

Exclusions from Grand Total:

Federally Funded Research and Development Centers

Jet Propulsion Laboratory (Operated by Calif. Inst. of Tech.	$1,815.2M
Space Radiation Effects Laboratory (Operated by College of William & Mary)	$4.3M
Employee Training & Misc. Purchases	(Less Than 1% of Total)

GEOGRAPHICAL DISTRIBUTION OF NASA OBLIGATIONS TO EDUCATIONAL INSTITUTIONS BY STANDARD U.S. REGION

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

REGION	PROJECT RESEARCH	SUSTAINING PROGRAM	TOTALS
NEW ENGLAND	228,661,786	19,804,714	248,466,500
MIDDLE ATLANTIC	70,641,095	35,865,011	106,506,106
EAST NORTH CENTRAL	89,134,857	32,798,995	121,933,852
WEST NORTH CENTRAL	35,242,278	20,784,219	56,026,497
SOUTH ATLANTIC	44,395,916	32,422,928	76,818,844
EAST SOUTH CENTRAL	14,636,495	9,637,933	24,274,428
WEST SOUTH CENTRAL	54,303,944	20,334,823	74,638,767
MOUNTAIN	38,193,571	13,887,805	52,081,376
PACIFIC	127,639,983	29,386,474	157,026,457
US POSSESSIONS	209,460		209,460
GRAND TOTALS	703,059,385	214,922,902	917,982,287

NASA - OBLIGATIONS TO EDUCATIONAL INSTITUTIONS

BY COGNIZANT PROGRAM OFFICE AND DIVISION

CUMULATIVE 1959 THROUGH JUNE 30, 1969

IN MILLIONS OF DOLLARS

COGNIZANT PROGRAM OFFICE AND DIVISION	OBLIGATED FROM HDQRS	OBLIGATED FROM FIELD	DIVISION TOTALS
MISC			
VARIOUS OFFICES - MISC	2.6	1.7	4.3
TOTAL MISC	2.6	1.7	4.3
OTU			
TECHNOLOGY UTILIZATN - OTU	12.7	.6	13.3
TOTAL OTU	12.7	.6	13.3
OUA			
UNIVERSITY AFFAIRS - OUA	214.8	.1	214.9
TOTAL OUA	214.8	.1	214.9
OT&DA			
TRACKING & DATA ACQ - OT&DA	.6	9.1	9.7
TOTAL OT&DA	.6	9.1	9.7
OART			
MISSION ANALYSIS DIV - ARC	.0	.3	.3
SPACE PWR ELECT PROP - RN	2.4	4.3	6.7
AEC NASA NUCLR PROP - NPO	2.1	.5	2.6
CHEMICAL PROPULSION - RP	6.9	4.9	11.8
SPACE VEHICLES - RV	3.9	8.6	12.5

CUMULATIVE 1959 THROUGH JUNE 30, 1969

IN MILLIONS OF DOLLARS

COGNIZANT PROGRAM OFFICE AND DIVISION	OBLIGATED FROM HDQRS	OBLIGATED FROM FIELD	DIVISION TOTALS
OART (CONTINUED)			
ELECTRONICS & CONTRL - RE	10.0	24.7	34.7
AERONAUTICS - RA	.8	7.1	7.9
BIOTECH & HUMAN RSCH - RB	5.9	11.1	17.0
RESEARCH - RR	32.4	6.2	38.6
PROGRAMS & RESOURCES - RM	.0	.1	.1
TOTAL OART	64.4	67.8	132.2
OSS&A			
SPACE SCIENCE & APPL - OSS&A	.0	.1	.1
APOLLO LUNAR PROGRAM - MAL	1.4	.1	1.5
LAUNCH VEHICLES - SV	.7	2.6	3.3
PLANETARY PROGRAMS - SL	46.2	11.0	57.2
PHYSICS & ASTRONOMY - SG	95.4	101.8	197.2
MANNED FLT EXPERMNTS - SS	6.1	2.5	8.6
BIOSCIENCE PROGRAMS - SB	41.8	15.5	57.3
EARTH OBSERVATIONS - SR	1.4	21.9	23.3
PROG REVIEW & RES MG - SP	.1	.6	.7
TOTAL OSS&A	193.1	156.1	349.2
OMSF			
MISSION OPERATIONS -	.0	1.5	1.5
APOLLO PROGRAM -	.2	148.9	149.1
ADV MANNED MISSIONS -	.7	14.7	15.4
APOLLO APLICATIONS -	4.0	21.1	25.1
SPACE STATION -	1.0	.4	1.4
MSF PROGRAM CONTROL -	.3	1.7	2.0
TOTAL OMSF	6.2	188.3	194.5
GRAND TOTALS	494	424	918

GEOGRAPHICAL DISTRIBUTION OF NASA OBLIGATIONS

TO EDUCATIONAL INSTITUTIONS BY STANDARD U.S. REGION AND STATE

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

REGION AND STATE	PROJECT RESEARCH	SUSTAINING PROGRAM	TOTALS
NEW ENGLAND			
CONNECTICUT	5,896,308	2,165,875	8,062,183
MAINE	131,000	732,050	863,050
MASSACHUSETTS	215,169,204	13,490,989	228,660,193
NEW HAMPSHIRE	6,318,541	764,500	7,083,041
RHODE ISLAND	1,052,547	1,541,000	2,593,547
VERMONT	94,186	1,110,300	1,204,486
SUB-TOTALS	228,661,786	19,804,714	248,466,500
MIDDLE ATLANTIC			
NEW JERSEY	27,490,896	2,643,198	30,134,094
NEW YORK	27,327,924	20,721,885	48,049,809
PENNSYLVANIA	15,822,275	12,499,928	28,322,203
SUB-TOTALS	70,641,095	35,865,011	106,506,106
EAST NORTH CENTRAL			
ILLINOIS	29,698,910	8,201,139	37,900,049
INDIANA	6,389,361	5,675,244	12,064,605
MICHIGAN	31,529,482	4,195,786	35,725,268
OHIO	10,292,501	7,469,249	17,761,750
WISCONSIN	11,224,603	7,257,577	18,482,180
SUB-TOTALS	89,134,857	32,798,995	121,933,852
WEST NORTH CENTRAL			
IOWA	12,945,515	2,860,380	15,805,895

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

REGION AND STATE	PROJECT RESEARCH	SUSTAINING PROGRAM	TOTALS
WEST NORTH CENTRAL (CONTINUED)			
KANSAS	2,002,799	4,863,400	6,866,199
MINNESOTA	16,964,870	6,163,539	23,128,409
MISSOURI	3,224,915	5,958,400	9,183,315
NEBRASKA		382,800	382,800
NORTH DAKOTA	68,405	265,100	333,505
SOUTH DAKOTA	35,774	290,600	326,374
SUB-TOTALS	35,242,278	20,784,219	56,026,497
SOUTH ATLANTIC			
DELAWARE	195,726	584,400	780,126
DISTRICT OF COLUMBIA	5,650,890	3,918,023	9,568,913
FLORIDA	6,796,522	6,543,587	13,340,109
GEORGIA	5,360,253	5,260,848	10,621,101
MARYLAND	15,276,784	6,094,904	21,371,688
NORTH CAROLINA	3,096,798	3,623,000	6,719,798
SOUTH CAROLINA	295,514	871,300	1,166,814
VIRGINIA	7,441,561	4,268,866	11,710,427
WEST VIRGINIA	281,868	1,258,000	1,539,868
SUB-TOTALS	44,395,916	32,422,928	76,818,844
EAST SOUTH CENTRAL			
ALABAMA	9,114,240	5,048,691	14,162,931
KENTUCKY	2,007,543	1,106,342	3,113,885
MISSISSIPPI	1,079,254	796,700	1,875,954
TENNESSEE	2,435,458	2,686,200	5,121,658
SUB-TOTALS	14,636,495	9,637,933	24,274,428
WEST SOUTH CENTRAL			
ARKANSAS	634,853	742,600	1,377,453
LOUISIANA	2,153,855	1,947,624	4,101,479

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

REGION AND STATE	PROJECT RESEARCH	SUSTAINING PROGRAM	TOTALS
WEST SOUTH CENTRAL (CONTINUED)			
OKLAHOMA	2,828,915	2,422,100	5,251,015
TEXAS	48,686,321	15,222,499	63,908,820
SUB-TOTALS	54,303,944	20,334,823	74,638,767
MOUNTAIN			
ARIZONA	8,613,172	3,204,677	11,817,849
COLORADO	9,666,394	5,381,628	15,048,022
IDAHO		177,900	177,900
MONTANA	65,456	1,180,300	1,245,756
NEVADA	684,533	244,600	929,133
NEW MEXICO	17,314,839	2,146,000	19,460,839
UTAH	1,348,200	1,371,000	2,719,200
WYOMING	500,977	181,700	682,677
SUB-TOTALS	38,193,571	13,887,805	52,081,376
PACIFIC			
ALASKA	7,524,549	199,600	7,724,149
CALIFORNIA	107,757,834	25,098,474	132,856,308
HAWAII	8,017,386	229,800	8,247,186
OREGON	1,093,499	778,500	1,871,999
WASHINGTON	3,246,715	3,080,100	6,326,815
SUB-TOTALS	127,639,983	29,386,474	157,026,457
US POSSESSIONS			
PUERTO RICO	59,500		59,500
VIRGIN ISLANDS	149,960		149,960
SUB-TOTALS	209,460		209,460

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

REGION AND STATE	PROJECT RESEARCH	SUSTAINING PROGRAM	TOTALS
GRAND TOTALS	703,059,385	214,922,902	917,982,287

NASA - OBLIGATIONS TO EDUCATIONAL INSTITUTIONS

BY TYPE OF SUPPORT, LOCATION AND INSTITUTION

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
ALABAMA			
ALABAMA A&M COLLEGE - 08	82,831	36,506	119,337
AUBURN UNIVERSITY - 03	4,911,055	1,328,232	6,239,287
TUSKEGEE INSTITUTE - 03		23,750	23,750
UNIV ALA-BIRMINGHAM - 06	15,000		15,000
UNIV ALA-HUNTSVILLE - 08	588,310		588,310
UNIV ALA-TUSCALOOSA - 05	3,517,044	3,660,203	7,177,247
ALASKA			
UNIV OF ALASKA - 01	7,524,549	199,600	7,724,149
ARIZONA			
ARIZONA STATE UNIV - 01	290,557	530,400	820,957
UNIV OF ARIZONA - 02	8,322,615	2,674,277	10,996,892
ARKANSAS			
ARKANSAS STATE UNIV - 01	20,000		20,000
HARDING COLLEGE - 02	137,214		137,214
UNIV OF ARKANSAS - 03	477,639	742,600	1,220,239
CALIFORNIA			
CAL ST COL-LNG BEACH - 32	33,544		33,544
CALIF INST OF TECH - 20	12,006,700	2,670,947	14,677,647
HUMBOLDT ST COLLEGE - 01	15,965		15,965
S FRANCISCO ST COL - 06	33,823		33,823
SAN DIEGO STATE COL - 36	24,418		24,418

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
CALIFORNIA (CONTINUED)			
SAN JOSE STATE COL - 09	164,557		164,557
STANFORD UNIVERSITY - 09	24,208,531	5,667,058	29,875,589
UNIV CALIF-BERKELEY - 07	31,818,448	6,013,575	37,832,023
UNIV CALIF-DAVIS - 04	1,587,992		1,587,992
UNIV CALIF-L ANGELES - 28	19,406,242	6,971,591	26,377,833
UNIV CALIF-RIVERSIDE - 38	131,953	228,100	360,053
UNIV CALIF-S BARBARA - 13	620,739	218,966	839,705
UNIV CALIF-S CRUZ - 12	350,721		350,721
UNIV CALIF-SAN DIEGO - 35	12,118,978	626,700	12,745,678
UNIV CALIF-SAN FRAN - 05	319,105		319,105
UNIV OF REDLANDS - 33	162,522		162,522
UNIV OF SANTA CLARA - 09	130,484		130,484
UNIV OF SOUTHERN CAL - 21	4,463,779	2,701,537	7,165,316
UNIV SAN FRANCISCO - 06	159,333		159,333
COLORADO			
COLORADO SCH OF MINE - 02	10,110	440,000	450,110
COLORADO STATE UNIV - 04	2,445,544	845,755	3,291,299
UNIV OF COLORADO - 01	5,277,655	1,741,400	7,019,055
UNIV OF DENVER - 01	1,837,254	2,354,473	4,191,727
WESTERN STATE COL - 04	95,831		95,831
CONNECTICUT			
FAIRFIELD UNIVERSITY - 04	44,620		44,620
ST JOSEPH COLLEGE - 01	5,500		5,500
UNIV OF BRIDGEPORT - 04	5,185		5,185
UNIV OF CONNECTICUT - 02	1,113,152	629,600	1,742,752
WESLEYAN UNIVERSITY - 02	114,835	28,558	143,393
YALE UNIVERSITY - 03	4,613,016	1,507,717	6,120,733
DELAWARE			
UNIV OF DELAWARE - 01	195,726	584,400	780,126

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
DISTRICT OF COLUMBIA			
AMERICAN UNIVERSITY - 01	263,405		263,405
CATHOLIC UNIVERSITY - 01	1,417,879	1,091,623	2,509,502
GEORGE WASHINGTON U - 01	3,001,453	1,873,900	4,875,353
GEORGETOWN UNIV - 01	627,967	460,200	1,088,167
HOWARD UNIVERSITY - 01	340,186	492,300	832,486
FLORIDA			
FLA INST CONT U STUD - 05	89,210		89,210
FLA INST OF TECH - 05	72,000		72,000
FLORIDA SOUTHERN COL - 06	26,785		26,785
FLORIDA STATE UNIV - 02	2,291,475	681,700	2,973,175
FLORIDA TECH UNIV - 05	12,500		12,500
UNIV OF FLORIDA - 02	2,081,390	3,875,300	5,956,690
UNIV OF MIAMI - 12	2,010,328	1,986,587	3,996,915
UNIV OF SO FLORIDA - 06	212,834		212,834
GEORGIA			
EMORY UNIVERSITY - 04	1,234,576	211,400	1,445,976
GEORGIA INST OF TECH - 05	3,309,421	4,396,648	7,706,069
UNIV OF GEORGIA - 10	816,256	652,800	1,469,056
HAWAII			
UNIV OF HAWAII - 01	8,017,386	229,800	8,247,186
IDAHO			
UNIV OF IDAHO - 01		177,900	177,900
ILLINOIS			
BRADLEY UNIVERSITY - 18	21,940		21,940

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
ILLINOIS (CONTINUED)			
ILL INST OF TECH - 01	1,257,892	990,400	2,248,292
NORTHWESTERN UNIV - 13	3,812,390	1,352,800	5,165,190
SOUTHERN ILLINOIS U - 21	264,339	93,000	357,339
UNIV ILLINOIS-CHICGO - 07	376,847		376,847
UNIV ILLINOIS-URBANA - 22	6,501,669	2,392,300	8,893,969
UNIV OF CHICAGO - 02	17,463,833	3,372,639	20,836,472
INDIANA			
BALL STATE UNIV - 10	20,450		20,450
INDIANA UNIVERSITY - 07	2,502,786	977,324	3,480,110
PURDUE UNIVERSITY - 02	3,020,776	3,903,620	6,924,396
ROSE POLYTECHNIC - 07	26,000		26,000
UNIV OF NOTRE DAME - 03	819,349	794,300	1,613,649
IOWA			
IOWA STATE UNIV - 05	1,242,088	1,080,900	2,322,988
UNIV OF IOWA - 01	11,703,427	1,779,480	13,482,907
KANSAS			
KANSAS STATE UNIV - 02	346,438	1,060,700	1,407,138
UNIV OF KANSAS - 03	1,483,531	3,802,700	5,286,231
WICHITA STATE UNIV - 04	172,830		172,830
KENTUCKY			
UNIV OF KENTUCKY - 06	1,789,303	537,600	2,326,903
UNIV OF LOUISVILLE - 03	218,240	568,742	786,982
LOUISIANA			
CENTENARY COLLEGE - 04	36,500		36,500

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
LOUISIANA (CONTINUED)			
LA ST U-BATON ROUGE - 06	1,164,115	1,122,824	2,286,939
LA ST U-SHREVEPORT - 04	8,040		8,040
LOUISIANA POLY INST - 05	28,087		28,087
NE LOUISIANA ST COL - 05	147,675		147,675
SOUTHERN UNIVERSITY - 06	10,558		10,558
TULANE UNIVERSITY - 02	758,880	824,800	1,583,680
MAINE			
AROOSTOOK STATE C - 02	26,000		26,000
FARMINGTON STATE TCH - 02	40,000		40,000
GORHAM ST TEACHERS C - 01	40,000		40,000
UNIV OF MAINE-ORONO - 02		732,050	732,050
WASHINGTON STATE COL - 02	25,000		25,000
MARYLAND			
COLUMBIA UNION COL - 08	10,500		10,500
JOHNS HOPKINS UNIV - 04	3,381,831	918,800	4,300,631
MORGAN STATE COLLEGE - 04		8,400	8,400
UNIV OF MARYLAND - 03	11,777,453	5,137,704	16,915,157
WOODSTOCK COLLEGE - 06	107,000	30,000	137,000
MASSACHUSETTS			
BOSTON COLLEGE - 03		224,400	224,400
BOSTON UNIVERSITY - 08	101,985	389,400	491,385
BRANDEIS UNIVERSITY - 03	573,428	399,900	973,328
CLARK UNIVERSITY - 04	14,881	166,100	180,981
COL OF HOLY CROSS - 04	118,485		118,485
HARVARD UNIVERSITY - 08	32,431,037	276,000	32,707,037
LOWELL TECH INST - 05	870,204	61,200	931,404
MASS INST OF TECH - 01	78,837,194	10,803,008	189,640,202
NORTHEASTERN UNIV - 09	765,403	446,481	1,211,884
TUFTS UNIVERSITY - 07	66,376	231,700	298,076
UNIV OF MASSACHUSETT - 01	572,657	293,100	865,757

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
MASSACHUSETTS (CONTINUED)			
WOODSHOLE OCEAN INST - 12	673,943		673,943
WORCESTER POLY INST - 04	143,611	199,700	343,311
MICHIGAN			
MICHIGAN STATE UNIV - 06	403,759	932,186	1,335,945
MICHIGAN TECH UNIV - 11	31,158	94,500	125,658
OAKLAND UNIVERSITY - 18	50,000		50,000
UNIV OF DETROIT - 01	131,760		131,760
UNIV OF MICHIGAN - 02	29,614,092	2,850,600	32,464,692
WAYNE STATE UNIV - 13	1,272,324	318,500	1,590,824
WESTERN MICHIGAN U - 03	26,389		26,389
MINNESOTA			
CONCORDIA COLLEGE - 07	11,419		11,419
UNIV OF MINNESOTA - 05	16,953,451	6,163,539	23,116,990
MISSISSIPPI			
MISSISSIPPI STATE U - 01	1,006,824	433,300	1,440,124
UNIV OF MISSISSIPPI - 02	64,158	262,800	326,958
UNIV SO MISSISSIPPI - 05	8,272	100,600	108,872
MISSOURI			
ST LOUIS UNIVERSITY - 03	238,210	757,800	996,010
UNIV MO-COLUMBIA - 08	719,793	1,516,400	2,236,193
UNIV MO-KANSAS CITY - 05	521,362		521,362
UNIV MO-ROLLA - 08	141,480	473,700	615,180
WASHINGTON UNIVERSTY - 02	1,604,070	3,210,500	4,814,570

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
MONTANA			
MONTANA STATE UNIV - 01	65,456	924,700	990,156
UNIV OF MONTANA - 01		255,600	255,600
NEBRASKA			
UNIV NEBRASKA-LINCLN - 01		382,800	382,800
NEVADA			
UNIV OF NEVADA-RENO - 01	684,533	244,600	929,133
NEW HAMPSHIRE			
DARTMOUTH COLLEGE - 02	1,719,570	411,500	2,131,070
UNIV NEW HAMPSHIRE - 01	4,598,971	353,000	4,951,971
NEW JERSEY			
FAIRLEIGH-DICKNSON U - 09	15,000		15,000
NEW JERSEY COL MED - 11	170,216		170,216
NEWARK COLLEGE ENGRG - 10	146,549		146,549
PRINCETON UNIVERSITY - 04	24,198,311	1,425,944	25,624,255
RUTGERS-THE STATE U - 15	1,922,834	650,754	2,573,588
SETON HALL UNIV - 11	193,788		193,788
STEVENS INST OF TECH - 14	844,198	566,500	1,410,698
NEW MEXICO			
NEW MEX INST MINING - 02	25,100		25,100
NEW MEXICO STATE U - 01	14,168,890	1,067,900	15,236,790
UNIV OF NEW MEXICO - 01	3,120,849	1,078,100	4,198,949

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
NEW YORK			
ADELPHI UNIVERSITY - 04	16,270	782,242	798,512
ALFRED UNIVERSITY - 38	17,634	97,200	114,834
CITY COLLEGE OF N Y - 19	404,512	167,704	572,216
CLARKSON COL OF TECH - 31	150,629	269,100	419,729
COLUMBIA UNIVERSITY - 20	4,466,643	2,627,050	7,093,693
CORNELL UNIVERSITY - 17	3,594,489	3,142,352	6,736,841
CUNY-GRADUATE CENTER - 19		391,000	391,000
FORDHAM UNIVERSITY - 21	216,982	230,100	447,082
LONG ISLAND UNIV - 03	152,099		152,099
NEW YORK MEDICAL COL - 18	7,090		7,090
NEW YORK UNIVERSITY - 19	3,697,684	2,977,371	6,675,055
POLY INST BROOKLYN - 02	989,998	1,866,200	2,856,198
PRATT INSTITUTE - 14	7,757		7,757
RENSSELAER POLY INST - 30	6,570,464	3,189,800	9,760,264
ST JOHNS UNIVERSITY - 10	46,995		46,995
SUNY-ALBANY - 29	167,432		167,432
SUNY-BUFFALO - 39	753,107	177,000	930,107
SUNY-STONY BROOK - 01	1,140,697	407,917	1,548,614
SYRACUSE UNIVERSITY - 34	1,017,295	1,788,900	2,806,195
UNION COLLEGE - 29	20,000		20,000
UNIV OF ROCHESTER - 36	3,424,673	1,935,200	5,359,873
YESHIVA UNIVERSITY - 23	465,474	672,749	1,138,223
NORTH CAROLINA			
DUKE UNIVERSITY - 04	752,790	1,293,400	2,046,190
NO CAROLINA STATE U - 04	1,890,831	926,000	2,816,831
UNIV N CAR-CHPL HILL - 04	453,177	1,403,600	1,856,777
NORTH DAKOTA			
NO DAKOTA STATE UNIV - 01	9,000	179,600	188,600
UNIV OF NORTH DAKOTA - 01	59,405	85,500	144,905

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
OHIO			
BOWLING GREEN ST UNV - 05	289,969		289,969
CASE WESTERN RESERVE - 22	4,587,509	4,515,839	9,103,348
CLEVELAND STATE UNIV - 20	35,000		35,000
COLLEGE OF WOOSTER - 17	3,613		3,613
HIRAM COLLEGE - 11	154,466		154,466
JOHN CARROLL UNIV - 22	73,700		73,700
KENT STATE UNIV - 11	223,518	287,900	511,418
MIAMI UNIVERSITY - 24		42,210	42,210
OHIO STATE UNIV - 15	3,694,308	954,500	4,648,808
OHIO UNIVERSITY - 10	154,844	192,600	347,444
UNIV OF AKRON - 14	4,000		4,000
UNIV OF CINCINNATI - 02	1,058,718	1,223,800	2,282,518
UNIV OF TOLEDO - 09		252,400	252,400
XAVIER UNIVERSITY - 01	12,856		12,856
OKLAHOMA			
OHIO UNIVERSITY - 06	223,361		223,361
OKLAHOMA CITY UNIV - 05	411,450		411,450
OKLAHOMA STATE UNIV - 05	1,564,219	1,160,500	2,724,719
SOUTHEASTERN ST COL - 03	500,764		500,764
UNIV OF OKLAHOMA - 04	129,121	1,261,600	1,390,721
OREGON			
OREGON STATE UNIV - 01	357,647	778,500	1,136,147
UNIV OF OREGON - 04	735,852		735,852
PENNSYLVANIA			
BRYN MAWR COLLEGE - 13	18,298		18,298
CARNEGIE MELLON UNIV - 14	891,243	1,185,800	2,077,043
DREXEL INST OF TECH - 01	577,429	849,200	1,426,629
DUQUESNE UNIVERSITY - 14		100,700	100,700
HAHNEMANN MED COL - 03	19,211		19,211
HAVERFORD COLLEGE - 07	204,366		204,366

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
PENNSYLVANIA (CONTINUED)			
LEHIGH UNIVERSITY - 15	704,568	792,400	1,496,968
PENNSYLVANIA STATE U - 23	4,573,510	2,527,271	7,100,781
TEMPLE UNIVERSITY - 02	1,139,585	185,800	1,325,385
UNIV OF PENNSYLVANIA - 01	3,402,021	2,003,200	5,405,221
UNIV OF PITTSBURGH - 14	4,186,565	4,817,357	9,003,922
VILLANOVA UNIV - 07	105,479	38,200	143,679
RHODE ISLAND			
BROWN UNIVERSITY - 01	1,042,547	1,191,600	2,234,147
PROVIDENCE COLLEGE - 02	10,000		10,000
UNIV OF RHODE ISLAND - 02		349,400	349,400
SOUTH CAROLINA			
CLEMSON UNIVERSITY - 03	177,516	469,800	647,316
UNIV OF SO CAROLINA - 02	117,998	401,500	519,498
SOUTH DAKOTA			
SO DAKOTA SCHL MINES - 02	29,444	100,000	129,444
SO DAKOTA STATE UNIV - 01	6,330		6,330
UNIV OF SOUTH DAKOTA - 01		190,600	190,600
TENNESSEE			
EAST TENNESSEE ST U - 01	20,350		20,350
TENNESSEE TECH U - 04	46,685		46,685
UNIV OF TENNESSEE - 02	1,807,492	1,828,400	3,635,892
VANDERBILT UNIV - 05	560,931	857,800	1,418,731
TEXAS			
BAYLOR UNIV MED COL - 22	1,597,946		1,597,946

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
TEXAS (CONTINUED)			
BAYLOR UNIVERSITY - 11	415,499	53,000	468,499
LAMAR ST COL OF TECH - 09	23,558		23,558
NO TEXAS STATE UNIV - 13	54,696		54,696
PAN AMERICAN COLLEGE - 15	61,000		61,000
PRAIRIE VIEW A&M COL - 06		12,890	12,890
RICE UNIVERSITY - 22	15,557,905	3,936,700	19,494,605
SOUTHERN METHODIST U - 05	923,176	870,000	1,793,176
TEXAS A&I UNIVERSITY - 15	11,463		11,463
TEXAS A&M UNIVERSITY - 06	1,826,116	3,129,600	4,955,716
TEXAS CHRISTIAN UNIV - 06	479,882	277,800	757,682
TEXAS SOUTHERN UNIV - 22	78,433		78,433
TEXAS TECH COLLEGE - 19	137,906	538,700	676,606
TEXAS WOMANS UNIV - 13	849,706		849,706
UNIV OF HOUSTON - 22	2,636,138	2,019,999	4,656,137
UNIV OF ST THOMAS - 07	259,589		259,589
UNIV TEX-ANDRSN HOSP - 22	315,000		315,000
UNIV TEX-BIOMED GRAD - 22	298,070		298,070
UNIV TEX-DALLAS - 05	12,655,564	3,449,110	16,104,674
UNIV TEX-DENTAL BRCH - 22	35,000		35,000
UNIV TEXAS-ARLINGTON - 22	15,052		15,052
UNIV TEXAS-AUSTIN - 10	8,624,384	934,700	9,559,084
UNIV TEXAS-EL PASO - 16	580,215		580,215
UNIV TEXAS-GALVESTON - 09	202,470		202,470
UNIV TEXAS-SW MED SH - 03	1,047,553		1,047,553
UTAH			
BRIGHAM YOUNG UNIV - 01	114,571	210,400	324,971
UNIV OF UTAH - 02	1,119,787	727,000	1,846,787
UTAH STATE UNIV - 01	113,842	433,600	547,442
VERMONT			
UNIV OF VERMONT - 01	94,186	1,110,300	1,204,486

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
VIRGINIA			
COLLEGE OF WM & MARY - 01	1,769,388	1,013,275	2,782,663
HAMPTON INSTITUTE - 01	207,932	11,125	219,057
HOLLINS COLLEGE - 06	43,859		43,859
OLD DOMINION COLLEGE - 02	399,408	415,566	814,974
UNIV OF VIRGINIA - 07	3,399,536	1,473,100	4,872,636
VIRGINIA COMNWLTH U - 03	631,708		631,708
VIRGINIA POLY INST - 06	989,730	1,355,800	2,345,530
WASHINGTON			
UNIV OF WASHINGTON - 01	3,059,533	2,652,500	5,712,033
WASHINGTON ST UNIV - 04	187,182	427,600	614,782
WEST VIRGINIA			
WEST VIRGINIA UNIV - 02	281,868	1,258,000	1,539,868
WISCONSIN			
MARQUETTE UNIVERSITY - 05	69,098	53,100	122,198
UNIV WISC-MADISON - 02	11,155,505	7,204,477	18,359,982
WYOMING			
UNIV OF WYOMING - 01	500,977	181,700	682,677
PUERTO RICO			
UNIV OF PUERTO RICO	59,500		59,500
VIRGIN ISLANDS			
COLLEGE VIRGIN ISLND	149,960		149,960

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
TOTAL UNITED STATES	703,059,385	214,922,902	917,982,287
AUSTRALIA			
NEWCASTLE UNIVERSITY	4,700		4,700
UNIV OF ADELAIDE	24,130		24,130
UNIV OF QUEENSLAND	4,650		4,650
AUSTRIA			
UNIV OF INNSBRUCK	10,500		10,500
CANADA			
LAURENTIAN UNIVERSTY	26,965		26,965
MCGILL UNIVERSITY	50,012		50,012
MCMASTER UNIVERSITY	116,173		116,173
UNIV BRIT COLUMBIA	2,645		2,645
UNIV OF TORONTO	324,382		324,382
UNIV WESTERN ONTARIO	149,950		149,950
YORK UNIVERSITY	70,711		70,711
CHILE			
UNIV OF CHILE	5,802,321		5,802,321
GREAT BRITAIN			
NORTH WALES UNIV COL	13,750		13,750
UNIV OF MANCHESTER	374,582		374,582
UNIV OF NOTTINGHAM	20,000		20,000
UNIV OF SOUTHAMPTON	164,482		164,482

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
ICELAND			
UNIV OF ICELAND	7,000		7,000
IRELAND			
QUEENS UNIVERSITY	16,000		16,000
ISRAEL			
ISRAEL INST OF TECH	21,410		21,410
JAMAICA			
UNIV OF WEST INDIES	31,617		31,617
KENYA			
UNIVERSITY COLLEGE	3,000		3,000
NEW ZEALAND			
UNIV OF AUCKLAND	87,610		87,610
UNIV OF CANTERBURY	4,527		4,527
PERU			
UNIV OF PERU	2,796,112		2,796,112
SWEDEN			
UNIV OF GOTEBORG	8,000		8,000
UPPSALA UNIVERSITY	15,000		15,000

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

LOCATION AND INSTITUTION	PROJECT RESEARCH	SUSTAINING PROGRAM	INSTITUTION TOTALS
WEST GERMANY			
UNIV OF MUNICH	4,500		4,500
TOTAL FOREIGN	10,154,729		10,154,729
GRAND TOTAL	713,214,114	214,922,902	928,137,016

NASA - OBLIGATIONS AND DISBURSEMENTS TO EDUCATIONAL INSTITUTIONS

BY INSTITUTION AND UNIQUE PROJECT

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	ADELPHI UNIVERSITY			
181	TRAINING GRANTS	261,700		
183	RESEARCH GRANTS	520,542		
188	PHYSICS AND ASTRONOMY SRT	16,270	798,512	701,969
	ALABAMA A&M COLLEGE			
127	HUMAN FACTOR SYSTEMS SRT	53,738		
183	RESEARCH GRANTS	36,506		
188	PHYSICS AND ASTRONOMY SRT	29,093	119,337	87,750
	ALFRED UNIVERSITY			
123	CHEMICAL AND SOLAR POWER SRT	17,634		
181	TRAINING GRANTS	97,200	114,834	72,058
	AMERICAN UNIVERSITY			
120	SPACE POWER AND ELECT PROP SYS SRT	43,900		
123	CHEMICAL AND SOLAR POWER SRT	134,287		
124	SPACE VEHICLE SYSTEMS SRT	11,858		
125	ELECTRONICS SYSTEMS SRT	5,960		
129	RESEARCH PROGRAM SRT	30,000		
160	SPACE APPLICATIONS SRT	25,595		
604	NIMBUS	11,805	263,405	231,204

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	ARIZONA STATE UNIV			
124	SPACE VEHICLE SYSTEMS SRT	28,328		
125	ELECTRONICS SYSTEMS SRT	44,865		
129	RESEARCH PROGRAM SRT	27,448		
160	SPACE APPLICATIONS SRT	25,000		
181	TRAINING GRANTS	530,400		
185	PLANETARY EXPLORATION SRT SCIENCE	112,018		
188	PHYSICS AND ASTRONOMY SRT	27,898		
195	LUNAR SCIENCE SRT	17,000		
933	SATURN V VEHICLE	8,000	820,957	586,263
	ARKANSAS STATE UNIV			
125	ELECTRONICS SYSTEMS SRT	20,000	20,000	7,018
	AROOSTOOK STATE C			
000	MISCELLANEOUS RESEARCH	26,000	26,000	26,000
	AUBURN UNIVERSITY			
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	19,867		
124	SPACE VEHICLE SYSTEMS SRT	80,665		
125	ELECTRONICS SYSTEMS SRT	825,128		
129	RESEARCH PROGRAM SRT	123,023		
150	TRACKING & DATA ACQUISITION SRT	886,054		
160	SPACE APPLICATIONS SRT	22,000		
181	TRAINING GRANTS	1,328,232		
904	APOLLO SUPPORTING DEVELOPMENT	104,060		
931	SATURN I VEHICLE	524,678		
932	SATURN 1B VEHICLE	124,219		
933	SATURN V VEHICLE	2,167,861		

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	AUBURN UNIVERSITY (CONTINUED)			
964	SATURN I WORKSHOP	33,500	6,239,287	5,402,626
	BALL STATE UNIV			
000	MISCELLANEOUS RESEARCH	20,450	20,450	16,303
	BAYLOR UNIV MED COL			
127	HUMAN FACTOR SYSTEMS SRT	40,918		
189	BIOSCIENCE SRT	185,504		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	50,000		
903	GEMINI SUPPORTING DEVELOPMENT	105,449		
911	MERCURY /FOR LIQUIDATION ONLY/	74,414		
914	APOLLO SPACECRAFT	373,177		
923	GEMINI SUPPORT	583,931		
945	MSF EXPERIMENT DEFINITION	94,095		
949	APOLLO APPLICATIONS EXPERIMENT DEF	90,458	1,597,946	1,409,089
	BAYLOR UNIVERSITY			
127	HUMAN FACTOR SYSTEMS SRT	85,861		
181	TRAINING GRANTS	53,000		
904	APOLLO SUPPORTING DEVELOPMENT	5,625		
914	APOLLO SPACECRAFT	314,013		
923	GEMINI SUPPORT	10,000	468,499	447,368
	BOSTON COLLEGE			
181	TRAINING GRANTS	224,400	224,400	198,115

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	BOSTON UNIVERSITY			
000	MISCELLANEOUS RESEARCH	1,824		
127	HUMAN FACTOR SYSTEMS SRT	25,918		
143	ECONOMIC STUDIES	49,763		
181	TRAINING GRANTS	389,400		
185	PLANETARY EXPLORATION SRT SCIENCE	24,480	491,385	448,946
	BOWLING GREEN ST UNV			
189	BIOSCIENCE SRT	34,394		
883	BIOSATELLITES	255,575	289,969	248,063
	BRADLEY UNIVERSITY			
124	SPACE VEHICLE SYSTEMS SRT	14,945		
125	ELECTRONICS SYSTEMS SRT	6,995	21,940	5,000
	BRANDEIS UNIVERSITY			
127	HUMAN FACTOR SYSTEMS SRT	125,475		
129	RESEARCH PROGRAM SRT	38,420		
160	SPACE APPLICATIONS SRT	2,995		
181	TRAINING GRANTS	399,900		
189	BIOSCIENCE SRT	380,658		
601	TIROS/TOS IMPROVEMENTS	25,880	973,328	839,197
	BRIGHAM YOUNG UNIV			
124	SPACE VEHICLE SYSTEMS SRT	21,000		
181	TRAINING GRANTS	210,400		
384	DATA ANALYSIS-PLANETARY	32,530		
385	DATA ANALYSIS	25,000		
808	MARINER-MARS 1964	36,041	324,971	278,430

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	BROWN UNIVERSITY			
123	CHEMICAL AND SOLAR POWER SRT	184,516		
124	SPACE VEHICLE SYSTEMS SRT	55,402		
125	ELECTRONICS SYSTEMS SRT	382,769		
127	HUMAN FACTOR SYSTEMS SRT	5,000		
129	RESEARCH PROGRAM SRT	235,557		
181	TRAINING GRANTS	741,600		
183	RESEARCH GRANTS	450,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	81,788		
815	VIKING	12,138		
933	SATURN V VEHICLE	85,377	2,234,147	1,876,347
	BRYN MAWR COLLEGE			
189	BIOSCIENCE SRT	18,298	18,298	2,000
	CAL ST COL-LNG BEACH			
000	MISCELLANEOUS RESEARCH	10,361		
120	SPACE POWER AND ELECT PROP SYS SRT	23,183	33,544	19,353
	CALIF INST OF TECH			
124	SPACE VEHICLE SYSTEMS SRT	486,588		
125	ELECTRONICS SYSTEMS SRT	90,200		
126	AERONAUTICAL VEHICLES ART	125,325		
127	HUMAN FACTOR SYSTEMS SRT	103,715		
128	CHEMICAL PROPULSION SRT	623,213		
129	RESEARCH PROGRAM SRT	766,950		
181	TRAINING GRANTS	1,390,947		
183	RESEARCH GRANTS	1,280,000		
185	PLANETARY EXPLORATION SRT SCIENCE	3,706,258		

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WHOLE DOLLARS

UPN FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	CALIF INST OF TECH (CONTINUED)			
188	PHYSICS AND ASTRONOMY SRT	3,441,629		
189	BIOSCIENCE SRT	307,732		
195	LUNAR SCIENCE SRT	100,000		
383	DATA ANALYSIS-LUNAR	15,855		
815	VIKING	8,296		
841	ORBITING GEOPHYSICAL OBSERVATORIES	533,800		
848	RETURNED LUNAR SAMPLE ANALYSIS	445,112		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	226,282		
861	INTERPLANETARY EXPLORERS /IMP/	240,000		
879	SOUNDING ROCKETS	182,985		
914	APOLLO SPACECRAFT	502,000		
931	SATURN I VEHICLE	50,847		
945	MSF EXPERIMENT DEFINITION	49,913	14,677,647	11,429,482
	CARNEGIE MELLON UNIV			
125	ELECTRONICS SYSTEMS SRT	138,780		
126	AERONAUTICAL VEHICLES ART	143,500		
129	RESEARCH PROGRAM SRT	307,682		
181	TRAINING GRANTS	1,185,800		
185	PLANETARY EXPLORATION SRT SCIENCE	96,983		
189	BIOSCIENCE SRT	116,368		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	5,048		
861	INTERPLANETARY EXPLORERS /IMP/	29,882		
914	APOLLO SPACECRAFT	53,000	2,077,043	1,504,045
	CASE WESTERN RESERVE			
120	SPACE POWER AND ELECT PROP SYS SRT	120,000		

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	CASE WESTERN RESERVE	(CONTINUED)		
122	NUCLEAR ROCKETS PROPULSION SRT	189,582		
124	SPACE VEHICLE SYSTEMS SRT	507,136		
125	ELECTRONICS SYSTEMS SRT	631,227		
127	HUMAN FACTOR SYSTEMS SRT	24,778		
128	CHEMICAL PROPULSION SRT	49,945		
129	RESEARCH PROGRAM SRT	2,173,710		
181	TRAINING GRANTS	2,289,839		
182	FACILITIES GRANTS	2,226,000		
185	PLANETARY EXPLORATION SRT SCIENCE	37,965		
188	PHYSICS AND ASTRONOMY SRT	148,000		
195	LUNAR SCIENCE SRT	20,000		
718	NERVA	177,065		
866	MANNED SATELLITE SCIENCE	50,000		
914	APOLLO SPACECRAFT	225,000		
942	APOLLO APPLICATIONS DESIGN & DEV	173,101		
945	MSF EXPERIMENT DEFINITION	60,000	9,103,348	8,194,375
	CATHOLIC UNIVERSITY			
120	SPACE POWER AND ELECT PROP SYS SRT	273,406		
122	NUCLEAR ROCKETS PROPULSION SRT	287,120		
123	CHEMICAL AND SOLAR POWER SRT	31,638		
124	SPACE VEHICLE SYSTEMS SRT	208,079		
125	ELECTRONICS SYSTEMS SRT	42,000		
129	RESEARCH PROGRAM SRT	138,561		
181	TRAINING GRANTS	1,091,623		
188	PHYSICS AND ASTRONOMY SRT	30,000		
189	BIOSCIENCE SRT	118,806		
385	DATA ANALYSIS	17,000		
879	SOUNDING ROCKETS	271,269	2,509,502	2,051,211

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	CENTENARY COLLEGE			
914	APOLLO SPACECRAFT	36,500	36,500	25,378
	CITY COLLEGE OF N Y			
120	SPACE POWER AND ELECT PROP SYS SRT	25,996		
122	NUCLEAR ROCKETS PROPULSION SRT	23,124		
124	SPACE VEHICLE SYSTEMS SRT	7,989		
126	AERONAUTICAL VEHICLES ART	71,974		
129	RESEARCH PROGRAM SRT	117,610		
183	RESEARCH GRANTS	167,704		
188	PHYSICS AND ASTRONOMY SRT	35,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	122,819	572,216	476,266
	CLARK UNIVERSITY			
129	RESEARCH PROGRAM SRT	14,881		
181	TRAINING GRANTS	166,100	180,981	141,390
	CLARKSON COL OF TECH			
124	SPACE VEHICLE SYSTEMS SRT	36,000		
125	ELECTRONICS SYSTEMS SRT	29,610		
129	RESEARCH PROGRAM SRT	85,019		
181	TRAINING GRANTS	269,100	419,729	287,695
	CLEMSON UNIVERSITY			
125	ELECTRONICS SYSTEMS SRT	177,516		
181	TRAINING GRANTS	469,800	647,316	538,425

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	CLEVELAND STATE UNIV			
120	SPACE POWER AND ELECT PROP SYS SRT	35,000	35,000	
	COL OF HOLY CROSS			
188	PHYSICS AND ASTRONOMY SRT	118,485	118,485	118,485
	COLLEGE OF WM & MARY			
123	CHEMICAL AND SOLAR POWER SRT	50,000		
124	SPACE VEHICLE SYSTEMS SRT	705,210		
125	ELECTRONICS SYSTEMS SRT	221,090		
127	HUMAN FACTOR SYSTEMS SRT	32,493		
129	RESEARCH PROGRAM SRT	682,000		
181	TRAINING GRANTS	210,075		
183	RESEARCH GRANTS	803,200		
188	PHYSICS AND ASTRONOMY SRT	36,925		
729	HYPERSONIC RESEARCH ENGINE	41,670	2,782,663	2,518,939
	COLLEGE OF WOOSTER			
000	MISCELLANEOUS RESEARCH	3,613	3,613	
	COLLEGE VIRGIN ISLND			
185	PLANETARY EXPLORATION SRT SCIENCE	73,420		
195	LUNAR SCIENCE SRT	59,200		
914	APOLLO SPACECRAFT	17,340	149,960	52,670

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	COLORADO SCH OF MINE			
124	SPACE VEHICLE SYSTEMS SRT	10,110		
181	TRAINING GRANTS	190,000		
183	RESEARCH GRANTS	250,000	450,110	153,391
	COLORADO STATE UNIV			
120	SPACE POWER AND ELECT PROP SYS SRT	423,295		
124	SPACE VEHICLE SYSTEMS SRT	39,735		
125	ELECTRONICS SYSTEMS SRT	20,000		
129	RESEARCH PROGRAM SRT	13,327		
160	SPACE APPLICATIONS SRT	756,914		
180	LAUNCH VEHICLE DEVELOPMENT SRT	15,642		
181	TRAINING GRANTS	526,000		
183	RESEARCH GRANTS	319,755		
189	BIOSCIENCE SRT	489,265		
601	TIPOS/TOS IMPROVEMENTS	59,609		
604	NIMBUS	15,000		
883	BIOSATELLITES	355,774		
933	SATURN V VEHICLE	256,983	3,291,299	2,489,369
	COLUMBIA UNION COL			
160	SPACE APPLICATIONS SRT	10,500	10,500	10,500
	COLUMBIA UNIVERSITY			
000	MISCELLANEOUS RESEARCH	258,305		
120	SPACE POWER AND ELECT PROP SYS SRT	62,171		
124	SPACE VEHICLE SYSTEMS SRT	126,664		
127	HUMAN FACTOR SYSTEMS SRT	214,054		
129	RESEARCH PROGRAM SRT	539,908		
160	SPACE APPLICATIONS SRT	81,292		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	COLUMBIA UNIVERSITY (CONTINUED)			
181	TRAINING GRANTS	1,764,331		
183	RESEARCH GRANTS	862,719		
185	PLANETARY EXPLORATION SRT SCIENCE	520,000		
188	PHYSICS AND ASTRONOMY SRT	160,000		
601	TIROS/TOS IMPROVEMENTS	31,961		
708	SMALL BIOTECHNOLOGY FLIGHTS/LIQUID	117,261		
848	RETURNED LUNAR SAMPLE ANALYSIS	80,480		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	136,086		
879	SOUNDING ROCKETS	205,000		
914	APOLLO SPACECRAFT	1,561,350		
933	SATURN V VEHICLE	47,900		
942	APOLLO APPLICATIONS DESIGN & DEV	324,211	7,093,693	5,424,815
	CONCORDIA COLLEGE			
189	BIOSCIENCE SRT	11,419	11,419	5,497
	CORNELL UNIVERSITY			
000	MISCELLANEOUS RESEARCH	26,120		
122	NUCLEAR ROCKETS PROPULSION SRT	156,238		
125	ELECTRONICS SYSTEMS SRT	282,923		
126	AERONAUTICAL VEHICLES ART	67,170		
129	RESEARCH PROGRAM SRT	536,661		
181	TRAINING GRANTS	1,442,300		
182	FACILITIES GRANTS	1,350,000		
183	RESEARCH GRANTS	350,052		
185	PLANETARY EXPLORATION SRT SCIENCE	680,960		
186	PLANETARY EXPLORATION SRT AD TEC DV	141,381		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	CORNELL UNIVERSITY (CONTINUED)			
188	PHYSICS AND ASTRONOMY SRT	525,001		
189	BIOSCIENCE SRT	138,880		
815	VIKING	4,677		
831	ORBITING ASTRONOMICAL OBSERVATORIES	8,411		
879	SOUNDING ROCKETS	810,779		
914	APOLLO SPACECRAFT	68,500		
923	GEMINI SUPPORT	31,739		
942	APOLLO APPLICATIONS DESIGN & DEV	115,049	6,736,841	5,553,604
	CUNY-GRADUATE CENTER			
181	TRAINING GRANTS	391,000	391,000	315,748
	DARTMOUTH COLLEGE			
181	TRAINING GRANTS	411,500		
188	PHYSICS AND ASTRONOMY SRT	17,158		
189	BIOSCIENCE SRT	129,389		
385	DATA ANALYSIS	69,965		
841	ORBITING GEOPHYSICAL OBSERVATORIES	1,475,213		
883	BIOSATELLITES	27,845	2,131,070	1,876,581
	DREXEL INST OF TECH			
124	SPACE VEHICLE SYSTEMS SRT	374,343		
125	ELECTRONICS SYSTEMS SRT	22,054		
127	HUMAN FACTOR SYSTEMS SRT	32,057		
129	RESEARCH PROGRAM SRT	112,000		
181	TRAINING GRANTS	115,200		
183	RESEARCH GRANTS	734,000		
933	SATURN V VEHICLE	36,975	1,426,629	899,529

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	DUKE UNIVERSITY			
000	MISCELLANEOUS RESEARCH	45,631		
120	SPACE POWER AND ELECT PROP SYS SRT	278,127		
123	CHEMICAL AND SOLAR POWER SRT	122,904		
125	ELECTRONICS SYSTEMS SRT	265,068		
181	TRAINING GRANTS	793,400		
183	RESEARCH GRANTS	500,000		
189	BIOSCIENCE SRT	41,060	2,046,190	1,451,092
	DUQUESNE UNIVERSITY			
181	TRAINING GRANTS	100,700	100,700	62,011
	EAST TENNESSEE ST U			
124	SPACE VEHICLE SYSTEMS SRT	20,350	20,350	6,000
	EMORY UNIVERSITY			
124	SPACE VEHICLE SYSTEMS SRT	78,000		
127	HUMAN FACTOR SYSTEMS SRT	94,889		
129	RESEARCH PROGRAM SRT	50,515		
181	TRAINING GRANTS	211,400		
189	BIOSCIENCE SRT	646,551		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	50,000		
883	BIOSATELLITES	214,621		
945	MSF EXPERIMENT DEFINITION	100,000	1,445,97[illegible]	1,181,810
	FAIRFIELD UNIVERSITY			
160	SPACE APPLICATIONS SRT	15,000		
607	METEOROLOGICAL SOUNDINGS	29,620	44,62[illegible]	26,280

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	FAIRLEIGH-DICKNSON U			
125	ELECTRONICS SYSTEMS SRT	15,000	15,000	
	FARMINGTON STATE TCH			
000	MISCELLANEOUS RESEARCH	40,000	40,000	40,000
	FLA INST CONT U STUD			
000	MISCELLANEOUS RESEARCH	89,210	89,210	89,208
	FLA INST OF TECH			
950	LAUNCH OPERATIONS SUPPORT	72,000	72,000	27,000
	FLORIDA SOUTHERN COL			
127	HUMAN FACTOR SYSTEMS SRT	26,785	26,785	26,785
	FLORIDA STATE UNIV			
000	MISCELLANEOUS RESEARCH	58,331		
129	RESEARCH PROGRAM SRT	167,812		
181	TRAINING GRANTS	681,700		
185	PLANETARY EXPLORATION SRT SCIENCE	464,187		
188	PHYSICS AND ASTRONOMY SRT	14,832		
189	BIOSCIENCE SRT	1,521,843		
191	PLANETARY QUARANTINE	8,800		
815	VIKING	3,350		
914	APOLLO SPACECRAFT	6,400		
933	SATURN V VEHICLE	45,920	2,973,175	2,686,738

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	FLORIDA TECH UNIV			
125	ELECTRONICS SYSTEMS SRT	12,500	12,500	10,898
	FORDHAM UNIVERSITY			
181	TRAINING GRANTS	230,100		
189	BIOSCIENCE SRT	6,548		
945	MSF EXPERIMENT DEFINITION	6,000		
948	AAP EXPERIMENT DEVELOPMENT	178,596		
949	APOLLO APPLICATIONS EXPERIMENT DEF	25,838	447,082	251,249
	GEORGE WASHINGTON U			
000	MISCELLANEOUS RESEARCH	18,112		
124	SPACE VEHICLE SYSTEMS SRT	173,574		
125	ELECTRONICS SYSTEMS SRT	157,358		
141	IDENTIFICATION AND DISSEMINATION	407,307		
143	ECONOMIC STUDIES	903,708		
181	TRAINING GRANTS	498,900		
183	RESEARCH GRANTS	1,375,000		
188	PHYSICS AND ASTRONOMY SRT	178,899		
189	BIOSCIENCE SRT	885,519		
191	PLANETARY QUARANTINE	34,000		
311	NETWORK OPERATIONS-T&D ACQUISITION	22,001		
385	DATA ANALYSIS	15,979		
630	APPLICATIONS TECHNOLOGY SATELLITES	3,400		
821	ORBITING SOLAR OBSERVATORIES	73,523		
841	ORBITING GEOPHYSICAL OBSERVATORIES	44,000		
851	ENERGETIC PARTICLES EXPLORERS	20,000		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	GEORGE WASHINGTON U (CONTINUED)			
879	SOUNDING ROCKETS	64,073	4,875,353	3,646,166
	GEORGETOWN UNIV			
124	SPACE VEHICLE SYSTEMS SRT	302,981		
127	HUMAN FACTOR SYSTEMS SRT	194,428		
181	TRAINING GRANTS	460,200		
185	PLANETARY EXPLORATION SRT SCIENCE	130,558	1,088,167	986,815
	GEORGIA INST OF TECH			
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	48,262		
122	NUCLEAR ROCKETS PROPULSION SRT	115,908		
124	SPACE VEHICLE SYSTEMS SRT	148,167		
125	ELECTRONICS SYSTEMS SRT	702,611		
126	AERONAUTICAL VEHICLES ART	34,661		
128	CHEMICAL PROPULSION SRT	78,584		
129	RESEARCH PROGRAM SRT	527,429		
181	TRAINING GRANTS	1,689,300		
182	FACILITIES GRANTS	1,000,000		
183	RESEARCH GRANTS	1,707,348		
185	PLANETARY EXPLORATION SRT SCIENCE	331,278		
188	PHYSICS AND ASTRONOMY SRT	393,537		
879	SOUNDING ROCKETS	26,921		
904	APOLLO SUPPORTING DEVELOPMENT	92,919		
931	SATURN I VEHICLE	31,203		
932	SATURN 1B VEHICLE	161,995		
933	SATURN V VEHICLE	615,946	7,706,069	6,497,955

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	GORHAM ST TEACHERS C			
000	MISCELLANEOUS RESEARCH	40,000	40,000	40,000
	HAHNEMANN MED COL			
125	ELECTRONICS SYSTEMS SRT	9,606		
127	HUMAN FACTOR SYSTEMS SRT	9,605	19,211	19,211
	HAMPTON INSTITUTE			
126	AERONAUTICAL VEHICLES ART	207,932		
183	RESEARCH GRANTS	11,125	219,057	200,244
	HARDING COLLEGE			
914	APOLLO SPACECRAFT	46,440		
948	AAP EXPERIMENT DEVELOPMENT	90,774	137,214	92,877
	HARVARD UNIVERSITY			
000	MISCELLANEOUS RESEARCH	290,400		
120	SPACE POWER AND ELECT PROP SYS SRT	44,809		
124	SPACE VEHICLE SYSTEMS SRT	1,052,195		
125	ELECTRONICS SYSTEMS SRT	352,471		
127	HUMAN FACTOR SYSTEMS SRT	1,318,076		
129	RESEARCH PROGRAM SRT	90,000		
130	MISSION ANALYSIS SRT	39,987		
181	TRAINING GRANTS	276,000		
185	PLANETARY EXPLORATION SRT SCIENCE	1,049,215		
188	PHYSICS AND ASTRONOMY SRT	3,711,124		
189	BIOSCIENCE SRT	278,724		
195	LUNAR SCIENCE SRT	30,313		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	HARVARD UNIVERSITY (CONTINUED)			
708	SMALL BIOTECHNOLOGY FLIGHTS/LIQUID	28,875		
821	ORBITING SOLAR OBSERVATORIES	6,358,257		
822	ADV ORBITING SOLAR OBSERVATORIES	1,030,796		
841	ORBITING GEOPHYSICAL OBSERVATORIES	86,000		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	318,340		
877	RADIO ASTRONOMY EXPLORERS	341,283		
879	SOUNDING ROCKETS	1,511,091		
904	APOLLO SUPPORTING DEVELOPMENT	42,075		
905	APOLLO APPLICATIONS SUPPORTING DEV	73,799		
908	ADV MANNED MISSIONS SUPP DEVELOP	7,093		
911	MERCURY /FOR LIQUIDATION ONLY/	8,333		
914	APOLLO SPACECRAFT	269,794		
923	GEMINI SUPPORT	85,397		
942	APOLLO APPLICATIONS DESIGN & DEV	22,000		
948	AAP EXPERIMENT DEVELOPMENT	13,974,000		
981	ADVANCED STUDIES-MANNED SPACE FLGT	16,590	32,707,037	27,844,228
	HAVERFORD COLLEGE			
188	PHYSICS AND ASTRONOMY SRT	204,366	204,366	132,061
	HIRAM COLLEGE			
120	SPACE POWER AND ELECT PROP SYS SRT	154,466	154,466	109,054

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	HOLLINS COLLEGE			
189	BIOSCIENCE SRT	43,859	43,859	43,858
	HOWARD UNIVERSITY			
125	ELECTRONICS SYSTEMS SRT	20,000		
127	HUMAN FACTOR SYSTEMS SRT	222,788		
181	TRAINING GRANTS	352,300		
183	RESEARCH GRANTS	140,000		
185	PLANETARY EXPLORATION SRT SCIENCE	39,398		
188	PHYSICS AND ASTRONOMY SRT	48,000		
195	LUNAR SCIENCE SRT	10,000	832,486	589,954
	HUMBOLDT ST COLLEGE			
914	APOLLO SPACECRAFT	15,965	15,965	15,965
	ILL INST OF TECH			
122	NUCLEAR ROCKETS PROPULSION SRT	651,160		
124	SPACE VEHICLE SYSTEMS SRT	1,400		
125	ELECTRONICS SYSTEMS SRT	92,242		
128	CHEMICAL PROPULSION SRT	417,534		
129	RESEARCH PROGRAM SRT	39,219		
181	TRAINING GRANTS	990,400		
188	PHYSICS AND ASTRONOMY SRT	11,500		
914	APOLLO SPACECRAFT	44,837	2,248,292	1,862,050
	INDIANA UNIVERSITY			
000	MISCELLANEOUS RESEARCH	25,899		
127	HUMAN FACTOR SYSTEMS SRT	48,000		
129	RESEARCH PROGRAM SRT	45,167		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	INDIANA UNIVERSITY (CONTINUED)			
141	IDENTIFICATION AND DISSEMINATION	1,671,934		
143	ECONOMIC STUDIES	54,805		
181	TRAINING GRANTS	928,600		
183	RESEARCH GRANTS	48,724		
188	PHYSICS AND ASTRONOMY SRT	258,793		
189	BIOSCIENCE SRT	262,356		
879	SOUNDING ROCKETS	9,998		
914	APOLLO SPACECRAFT	125,834	3,480,110	2,910,983
	IOWA STATE UNIV			
124	SPACE VEHICLE SYSTEMS SRT	14,770		
128	CHEMICAL PROPULSION SRT	245,257		
129	RESEARCH PROGRAM SRT	36,361		
181	TRAINING GRANTS	1,080,900		
841	ORBITING GEOPHYSICAL OBSERVATORIES	945,700	2,322,988	1,839,007
	JOHN CARROLL UNIV			
124	SPACE VEHICLE SYSTEMS SRT	44,460		
129	RESEARCH PROGRAM SRT	29,240	73,700	62,227
	JOHNS HOPKINS UNIV			
124	SPACE VEHICLE SYSTEMS SRT	67,151		
125	ELECTRONICS SYSTEMS SRT	229,759		
127	HUMAN FACTOR SYSTEMS SRT	32,704		
129	RESEARCH PROGRAM SRT	277,998		
164	COMMUNICATION AND NAVIGATION SRT	46,399		
181	TRAINING GRANTS	918,800		
188	PHYSICS AND ASTRONOMY SRT	206,091		
189	BIOSCIENCE SRT	306,325		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	JOHNS HOPKINS UNIV (CONTINUED)			
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	29,950		
879	SOUNDING ROCKETS	1,995,383		
883	BIOSATELLITES	60,000		
904	APOLLO SUPPORTING DEVELOPMENT	6,000		
933	SATURN V VEHICLE	54,071		
945	MSF EXPERIMENT DEFINITION	70,000	4,300,631	3,773,551
	KANSAS STATE UNIV			
127	HUMAN FACTOR SYSTEMS SRT	173,580		
181	TRAINING GRANTS	760,700		
183	RESEARCH GRANTS	300,000		
185	PLANETARY EXPLORATION SRT SCIENCE	69,054		
189	BIOSCIENCE SRT	103,804	1,407,138	1,213,225
	KENT STATE UNIV			
125	ELECTRONICS SYSTEMS SRT	13,908		
129	RESEARCH PROGRAM SRT	209,610		
181	TRAINING GRANTS	287,900	511,418	342,467
	LA ST U-BATON ROUGE			
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	16,399		
124	SPACE VEHICLE SYSTEMS SRT	200,007		
125	ELECTRONICS SYSTEMS SRT	31,670		
126	AERONAUTICAL VEHICLES ART	16,864		
129	RESEARCH PROGRAM SRT	17,831		
181	TRAINING GRANTS	698,600		
183	RESEARCH GRANTS	424,224		
188	PHYSICS AND ASTRONOMY SRT	619,543		

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UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	LA ST U-BATON ROUGE	(CONTINUED)		
722	HYPERSONIC RAMJET EXPERIMENT	17,366		
914	APOLLO SPACECRAFT	60,428		
933	SATURN V VEHICLE	184,007	2,286,939	1,596,878
	LA ST U-SHREVEPORT			
914	APOLLO SPACECRAFT	8,040	8,040	
	LAMAR ST COL OF TECH			
914	APOLLO SPACECRAFT	23,558	23,558	
	LEHIGH UNIVERSITY			
124	SPACE VEHICLE SYSTEMS SRT	133,960		
125	ELECTRONICS SYSTEMS SRT	14,950		
126	AERONAUTICAL VEHICLES ART	197,737		
129	RESEARCH PROGRAM SRT	278,376		
181	TRAINING GRANTS	792,400		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	40,045		
914	APOLLO SPACECRAFT	39,500	1,496,968	1,215,469
	LONG ISLAND UNIV			
160	SPACE APPLICATIONS SRT	54,975		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	71,924		
914	APOLLO SPACECRAFT	25,200	152,099	70,973

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS--- OBLIGATIONS	DISBURSMNTS
	LOUISIANA POLY INST			
921	MISSION CONTROL SYSTEMS	28,087	28,087	7,000
	LOWELL TECH INST			
000	MISCELLANEOUS RESEARCH	571,918		
124	SPACE VEHICLE SYSTEMS SRT	50,875		
125	ELECTRONICS SYSTEMS SRT	20,552		
180	LAUNCH VEHICLE DEVELOPMENT SRT	112,429		
181	TRAINING GRANTS	61,200		
188	PHYSICS AND ASTRONOMY SRT	40,180		
797	COMMON USE SVC CARRIER ACCOUNT-OART	74,250	931,404	447,976
	MARQUETTE UNIVERSITY			
125	ELECTRONICS SYSTEMS SRT	59,430		
160	SPACE APPLICATIONS SRT	9,668		
181	TRAINING GRANTS	53,100	122,198	82,219
	MASS INST OF TECH			
000	MISCELLANEOUS RESEARCH	10,272		
101	SPACECRAFT TECHNOLOGY /LIQUIDATION/	1,014,792		
120	SPACE POWER AND ELECT PROP SYS SRT	207,262		
122	NUCLEAR ROCKETS PROPULSION SRT	73,965		
123	CHEMICAL AND SOLAR POWER SRT	267,460		
124	SPACE VEHICLE SYSTEMS SRT	437,675		
125	ELECTRONICS SYSTEMS SRT	13,412,524		
126	AERONAUTICAL VEHICLES ART	715,247		
127	HUMAN FACTOR SYSTEMS SRT	402,032		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	MASS INST OF TECH	(CONTINUED)		
128	CHEMICAL PROPULSION SRT	53,722		
129	RESEARCH PROGRAM SRT	3,453,927		
130	MISSION ANALYSIS SRT	99,115		
143	ECONOMIC STUDIES	474,240		
150	TRACKING & DATA ACQUISITION SRT	360,000		
160	SPACE APPLICATIONS SRT	323,237		
180	LAUNCH VEHICLE DEVELOPMENT SRT	129,241		
181	TRAINING GRANTS	1,418,500		
182	FACILITIES GRANTS	3,000,000		
183	RESEARCH GRANTS	6,219,242		
184	SOCIO-ECON STUDIES /LIQUIDATN ONLY/	165,266		
185	PLANETARY EXPLORATION SRT SCIENCE	3,188,047		
188	PHYSICS AND ASTRONOMY SRT	5,419,646		
189	BIOSCIENCE SRT	3,438,450		
195	LUNAR SCIENCE SRT	198,050		
311	NETWORK OPERATIONS-T&D ACQUISITION	5,000		
385	DATA ANALYSIS	370,000		
684	ADVANCED STUDIES-LUNAR & PLANETARY	6,800		
721	V/STOL AIRCRAFT TECHNOLOGY	82,991		
808	MARINER-MARS 1964	78,760		
811	PIONEER INTERN QUIET SUN YP	657,811		
815	VIKING	16,766		
817	MARINER-VENUS 1967	95,350		
821	ORBITING SOLAR OBSERVATORIES	1,451,555		
831	ORBITING ASTRONOMICAL OBSERVATORIES	6,760,374		
841	ORBITING GEOPHYSICAL OBSERVATORIES	566,999		
848	RETURNED LUNAR SAMPLE ANALYSIS	428,990		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	MASS INST OF TECH	(CONTINUED)		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	447,525		
855	GEODETIC SATELLITES	75,000		
856	SUNBLAZER	359,175		
861	INTERPLANETARY EXPLORERS /IMP/	1,383,760		
879	SOUNDING ROCKETS	573,332		
904	APOLLO SUPPORTING DEVELOPMENT	2,497,451		
905	APOLLO APPLICATIONS SUPPORTING DEV	3,563,899		
908	ADV MANNED MISSIONS SUPP DEVELOP	2,365,502		
911	MERCURY /FOR LIQUIDATION ONLY/	1,090,000		
914	APOLLO SPACECRAFT	19,487,475		
931	SATURN I VEHICLE	26,460		
932	SATURN 1B VEHICLE	109,060		
933	SATURN V VEHICLE	35,390		
942	APOLLO APPLICATIONS DESIGN & DEV	1,203,200		
945	MSF EXPERIMENT DEFINITION	230,002		
948	AAP EXPERIMENT DEVELOPMENT	50,000		
961	AAP SPACECRAFT DEVELOPMENT	671,663		
981	ADVANCED STUDIES-MANNED SPACE FLGT	468,000	189,640,202	172,000,529
	MIAMI UNIVERSITY			
183	RESEARCH GRANTS	42,210	42,210	19,666
	MICHIGAN STATE UNIV			
124	SPACE VEHICLE SYSTEMS SRT	6,840		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	MICHIGAN STATE UNIV	(CONTINUED)		
129	RESEARCH PROGRAM SRT	63,146		
181	TRAINING GRANTS	892,200		
183	RESEARCH GRANTS	39,986		
189	BIOSCIENCE SRT	333,773	1,335,945	1,159,978
	MICHIGAN TECH UNIV			
181	TRAINING GRANTS	94,500		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	31,158	125,658	102,985
	MISSISSIPPI STATE U			
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	13,419		
124	SPACE VEHICLE SYSTEMS SRT	28,156		
125	ELECTRONICS SYSTEMS SRT	33,839		
127	HUMAN FACTOR SYSTEMS SRT	112,715		
181	TRAINING GRANTS	233,300		
183	RESEARCH GRANTS	200,000		
189	BIOSCIENCE SRT	81,460		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	51,105		
904	APOLLO SUPPORTING DEVELOPMENT	105,083		
921	MISSION CONTROL SYSTEMS	90,000		
932	SATURN 1B VEHICLE	28,279		
933	SATURN V VEHICLE	462,768	1,440,124	1,021,735
	MONTANA STATE UNIV			
000	MISCELLANEOUS RESEARCH	25,542		
125	ELECTRONICS SYSTEMS SRT	17,314		
181	TRAINING GRANTS	379,700		
183	RESEARCH GRANTS	545,000		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	MONTANA STATE UNIV (CONTINUED)			
188	PHYSICS AND ASTRONOMY SRT	22,600	990,156	782,879
	MORGAN STATE COLLEGE			
183	RESEARCH GRANTS	8,400	8,400	5,912
	NE LOUISIANA ST COL			
125	ELECTRONICS SYSTEMS SRT	42,340		
129	RESEARCH PROGRAM SRT	92,961		
931	SATURN I VEHICLE	12,374	147,675	105,058
	NEW JERSEY COL MED			
127	HUMAN FACTOR SYSTEMS SRT	50,000		
914	APOLLO SPACECRAFT	120,216	170,216	98,150
	NEW MEX INST MINING			
188	PHYSICS AND ASTRONOMY SRT	25,100	25,100	
	NEW MEXICO STATE U			
000	MISCELLANEOUS RESEARCH	101,750		
129	RESEARCH PROGRAM SRT	122,047		
150	TRACKING & DATA ACQUISITION SRT	129,096		
160	SPACE APPLICATIONS SRT	44,070		
164	COMMUNICATION AND NAVIGATION SRT	29,900		
180	LAUNCH VEHICLE DEVELOPMENT SRT	20,000		
181	TRAINING GRANTS	562,900		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	NEW MEXICO STATE U	(CONTINUED)		
183	RESEARCH GRANTS	505,000		
185	PLANETARY EXPLORATION SRT SCIENCE	1,062,304		
188	PHYSICS AND ASTRONOMY SRT	126,698		
311	NETWORK OPERATIONS-T&D ACQUISITION	1,268,901		
312	EQUIP & COMPONENTS-T&D ACQUISITION	156,478		
385	DATA ANALYSIS	15,000		
491	CENTAUR PROCUREMENT	140,999		
492	DELTA PROCUREMENT	903,431		
493	AGENA PROCUREMENT /EXCL GEMINI VEH/	439,999		
494	ATLAS/OTHER THAN MERCURY/PROCUREMNT	19,000		
497	SUSTAINING ENGINEERNG & MAINTENANCE	788,654		
601	TIROS/TOS IMPROVEMENTS	21,533		
604	NIMBUS	262,629		
607	METEOROLOGICAL SOUNDINGS	1,940,352		
622	ECHO A-12 /INCLUDES AVT/	6,000		
626	RELAY	51,000		
627	SYNCOM	31,606		
630	APPLICATIONS TECHNOLOGY SATELLITES	2,470		
709	SMALL SPACE VEHICLE FLIGHT PROJECT	9,000		
803	SURVEYOR	10,000		
807	MARINER B /LIQUIDATION ONLY/	22,500		
811	PIONEER INTERN QUIET SUN YR	15,000		
821	ORBITING SOLAR OBSERVATORIES	123,800		
831	ORBITING ASTRONOMICAL OBSERVATORIES	30,000		
841	ORBITING GEOPHYSICAL OBSERVATORIES	213,999		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	NEW MEXICO STATE U (CONTINUED)			
851	ENERGETIC PARTICLES EXPLORERS	10,000		
852	ATMOSPHERE EXPLORERS	10,000		
853	IONOSPHERE EXPLORERS	3,000		
855	GEODETIC SATELLITES	49,515		
861	INTERPLANETARY EXPLORERS /IMP/	101,255		
870	UNITED KINGDOM SATELLITES	10,000		
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY	28,230		
879	SOUNDING ROCKETS	5,496,100		
891	CENTAUR DEVELOPMENT	156,000		
892	DELTA DEVELOPMENT /LIQUIDATN ONLY/	15,000		
914	APOLLO SPACECRAFT	52,367		
921	MISSION CONTROL SYSTEMS	129,207	15,236,790	14,071,676
	NEW YORK MEDICAL COL			
127	HUMAN FACTOR SYSTEMS SRT	7,090	7,090	4,000
	NEW YORK UNIVERSITY			
124	SPACE VEHICLE SYSTEMS SRT	201,327		
125	ELECTRONICS SYSTEMS SRT	477,880		
126	AERONAUTICAL VEHICLES ART	199,780		
128	CHEMICAL PROPULSION SRT	343,049		
129	RESEARCH PROGRAM SRT	1,005,277		
150	TRACKING & DATA ACQUISITION SRT	170,911		
160	SPACE APPLICATIONS SRT	397,729		
169	EARTH RESOURCES - SRT	59,629		
181	TRAINING GRANTS	1,136,100		
182	FACILITIES GRANTS	582,000		
183	RESEARCH GRANTS	1,259,271		
185	PLANETARY EXPLORATION SRT SCIENCE	55,434		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	NEW YORK UNIVERSITY (CONTINUED)			
188	PHYSICS AND ASTRONOMY SRT	100,500		
189	BIOSCIENCE SRT	49,405		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	560,040		
721	V/STOL AIRCRAFT TECHNOLOGY	26,723		
722	HYPERSONIC RAMJET EXPERIMENT	50,000	6,675,055	5,553,239
	NEWARK COLLEGE ENGRG			
125	ELECTRONICS SYSTEMS SRT	15,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	108,918		
905	APOLLO APPLICATIONS SUPPORTING DEV	22,631	146,549	69,263
	NO CAROLINA STATE U			
101	SPACECRAFT TECHNOLOGY /LIQUIDATION/	30,873		
124	SPACE VEHICLE SYSTEMS SRT	253,737		
125	ELECTRONICS SYSTEMS SRT	389,151		
126	AERONAUTICAL VEHICLES ART	180,980		
127	HUMAN FACTOR SYSTEMS SRT	257,500		
129	RESEARCH PROGRAM SRT	432,597		
150	TRACKING & DATA ACQUISITION SRT	34,631		
180	LAUNCH VEHICLE DEVELOPMENT SRT	17,003		
181	TRAINING GRANTS	926,000		
188	PHYSICS AND ASTRONOMY SRT	67,426		
189	BIOSCIENCE SRT	64,430		
730	RAM C /RADIO ATTENUATN MEASURMNTS/	27,000		
736	GEN AVIATION AIRCRAFT TECH SUP RES	69,415		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	NO CAROLINA STATE U (CONTINUED)			
874	GERMAN RESEARCH SATELLITE	39,016		
883	BIOSATELLITES	27,072	2,816,831	1,775,613
	NO DAKOTA STATE UNIV			
181	TRAINING GRANTS	179,600		
189	BIOSCIENCE SRT	9,000	188,600	151,407
	NO TEXAS STATE UNIV			
127	HUMAN FACTOR SYSTEMS SRT	54,696	54,696	13,184
	NORTHEASTERN UNIV			
000	MISCELLANEOUS RESEARCH	90,138		
120	SPACE POWER AND ELECT PROP SYS SRT	63,568		
124	SPACE VEHICLE SYSTEMS SRT	30,000		
125	ELECTRONICS SYSTEMS SRT	441,206		
129	RESEARCH PROGRAM SRT	79,793		
181	TRAINING GRANTS	446,481		
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY	16,280		
877	RADIO ASTRONOMY EXPLORERS	44,418	1,211,884	953,452
	NORTHWESTERN UNIV			
000	MISCELLANEOUS RESEARCH	112,000		
124	SPACE VEHICLE SYSTEMS SRT	218,608		
125	ELECTRONICS SYSTEMS SRT	296,855		
126	AERONAUTICAL VEHICLES ART	39,391		
129	RESEARCH PROGRAM SRT	292,962		
143	ECONOMIC STUDIES	213,529		
181	TRAINING GRANTS	1,052,800		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	NORTHWESTERN UNIV (CONTINUED)			
183	RESEARCH GRANTS	300,000		
185	PLANETARY EXPLORATION SRT SCIENCE	550,476		
188	PHYSICS AND ASTRONOMY SRT	199,231		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	125,244		
866	MANNED SATELLITE SCIENCE	60,484		
905	APOLLO APPLICATIONS SUPPORTING DEV	94,282		
914	APOLLO SPACECRAFT	1,128,200		
923	GEMINI SUPPORT	46,523		
942	APOLLO APPLICATIONS DESIGN & DEV	170,000		
945	MSF EXPERIMENT DEFINITION	97,418		
948	AAP EXPERIMENT DEVELOPMENT	145,718		
981	ADVANCED STUDIES-MANNED SPACE FLGT	21,469	5,165,190	4,200,611
	OAKLAND UNIVERSITY			
125	ELECTRONICS SYSTEMS SRT	50,000	50,000	
	OHIO STATE UNIV			
000	MISCELLANEOUS RESEARCH	41,759		
124	SPACE VEHICLE SYSTEMS SRT	251,604		
125	ELECTRONICS SYSTEMS SRT	793,859		
127	HUMAN FACTOR SYSTEMS SRT	171,170		
129	RESEARCH PROGRAM SRT	404,382		
164	COMMUNICATION AND NAVIGATION SRT	54,000		
181	TRAINING GRANTS	954,500		
185	PLANETARY EXPLORATION SPT SCIENCE	396,702		
188	PHYSICS AND ASTRONOMY SRT	5,244		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	OHIO STATE UNIV (CONTINUED)			
189	BIOSCIENCE SRT	367,995		
622	ECHO A-12 /INCLUDES AVT/	24,994		
630	APPLICATIONS TECHNOLOGY SATELLITES	70,998		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	25,000		
730	RAM C /RADIO ATTENUATN MEASURMNTS/	80,000		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	180,382		
855	GEODETIC SATELLITES	262,256		
904	APOLLO SUPPORTING DEVELOPMENT	174,411		
905	APOLLO APPLICATIONS SUPPORTING DEV	10,000		
914	APOLLO SPACECRAFT	202,552		
945	MSF EXPERIMENT DEFINITION	57,000		
981	ADVANCED STUDIES-MANNED SPACE FLGT	120,000	4,648,808	3,772,202
	OHIO UNIVERSITY			
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	90,839		
125	ELECTRONICS SYSTEMS SRT	26,867		
181	TRAINING GRANTS	192,600		
904	APOLLO SUPPORTING DEVELOPMENT	37,138		
933	SATURN V VEHICLE	223,361	570,805	501,493
	OKLAHOMA CITY UNIV			
189	BIOSCIENCE SRT	411,450	411,450	411,450

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WHOLE DOLLARS

UPN FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	OKLAHOMA STATE UNIV			
000	MISCELLANEOUS RESEARCH	94,500		
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	70,898		
120	SPACE POWER AND ELECT PROP SYS SRT	9,927		
123	CHEMICAL AND SOLAR POWER SRT	188,452		
124	SPACE VEHICLE SYSTEMS SRT	93,378		
125	ELECTRONICS SYSTEMS SRT	23,185		
126	AERONAUTICAL VEHICLES ART	92,616		
129	RESEARCH PROGRAM SRT	49,426		
141	IDENTIFICATION AND DISSEMINATION	260,099		
181	TRAINING GRANTS	748,000		
183	RESEARCH GRANTS	412,500		
188	PHYSICS AND ASTRONOMY SRT	237,623		
841	ORBITING GEOPHYSICAL OBSERVATORIES	9,500		
861	INTERPLANETARY EXPLORERS /IMP/	18,214		
879	SOUNDING ROCKETS	223,616		
931	SATURN I VEHICLE	76,046		
933	SATURN V VEHICLE	116,739	2,724,719	2,314,854
	OLD DOMINION COLLEGE			
124	SPACE VEHICLE SYSTEMS SRT	37,100		
125	ELECTRONICS SYSTEMS SRT	154,462		
126	AERONAUTICAL VEHICLES ART	103,960		
129	RESEARCH PROGRAM SRT	78,886		
181	TRAINING GRANTS	415,566		
188	PHYSICS AND ASTRONOMY SRT	25,000	814,974	359,576
	OREGON STATE UNIV			
000	MISCELLANEOUS RESEARCH	16,050		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	OREGON STATE UNIV (CONTINUED)			
124	SPACE VEHICLE SYSTEMS SRT	20,340		
181	TRAINING GRANTS	778,500		
185	PLANETARY EXPLORATION SRT SCIENCE	62,140		
189	BIOSCIENCE SRT	103,103		
195	LUNAR SCIENCE SRT	40,000		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	49,014		
914	APOLLO SPACECRAFT	67,000	1,136,147	899,020
	PAN AMERICAN COLLEGE			
311	NETWORK OPERATIONS-T&D ACQUISITION	16,000		
855	GEODETIC SATELLITES	45,000	61,000	57,670
	PENNSYLVANIA STATE U			
120	SPACE POWER AND ELECT PROP SYS SRT	34,815		
123	CHEMICAL AND SOLAR POWER SRT	29,122		
124	SPACE VEHICLE SYSTEMS SRT	105,839		
125	ELECTRONICS SYSTEMS SRT	316,076		
126	AERONAUTICAL VEHICLES ART	70,000		
127	HUMAN FACTOR SYSTEMS SRT	13,621		
128	CHEMICAL PROPULSION SRT	646,820		
129	RESEARCH PROGRAM SRT	123,312		
181	TRAINING GRANTS	1,327,271		
183	RESEARCH GRANTS	1,200,000		
185	PLANETARY EXPLORATION SRT SCIENCE	97,563		
188	PHYSICS AND ASTRONOMY SRT	1,366,555		
189	BIOSCIENCE SRT	1,083,948		
385	DATA ANALYSIS	14,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	58,971		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	PENNSYLVANIA STATE U	(CONTINUED)		
721	V/STOL AIRCRAFT TECHNOLOGY	71,540		
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY	1,000		
879	SOUNDING ROCKETS	507,771		
933	SATURN V VEHICLE	32,557	7,100,781	5,617,107
	POLY INST BROOKLYN			
124	SPACE VEHICLE SYSTEMS SRT	36,255		
125	ELECTRONICS SYSTEMS SRT	292,238		
127	HUMAN FACTOR SYSTEMS SRT	55,983		
129	RESEARCH PROGRAM SRT	553,787		
150	TRACKING & DATA ACQUISITION SRT	4,985		
160	SPACE APPLICATIONS SRT	11,836		
181	TRAINING GRANTS	1,234,200		
182	FACILITIES GRANTS	632,000		
188	PHYSICS AND ASTRONOMY SRT	34,914	2,856,198	2,533,790
	PRAIRIE VIEW A&M COL			
183	RESEARCH GRANTS	12,890	12,890	7,673
	PRATT INSTITUTE			
000	MISCELLANEOUS RESEARCH	7,757	7,757	7,757
	PRINCETON UNIVERSITY			
104	PROPULSION TECHNOLOGY /LIQUIDATION/	393,000		
120	SPACE POWER AND ELECT PROP SYS SRT	1,163,912		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	PRINCETON UNIVERSITY (CONTINUED)			
122	NUCLEAR ROCKETS PROPULSION SRT	248,000		
124	SPACE VEHICLE SYSTEMS SRT	177,761		
125	ELECTRONICS SYSTEMS SRT	141,053		
126	AERONAUTICAL VEHICLES ART	84,885		
128	CHEMICAL PROPULSION SRT	2,607,769		
129	RESEARCH PROGRAM SRT	721,394		
160	SPACE APPLICATIONS SRT	45,432		
180	LAUNCH VEHICLE DEVELOPMENT SRT	698,685		
181	TRAINING GRANTS	1,152,800		
182	FACILITIES GRANTS	250,000		
183	RESEARCH GRANTS	23,144		
185	PLANETARY EXPLORATION SRT SCIENCE	226,770		
188	PHYSICS AND ASTRONOMY SRT	2,935,092		
189	BIOSCIENCE SRT	496,794		
311	NETWORK OPERATIONS-T&D ACQUISITION	24,730		
385	DATA ANALYSIS	25,000		
685	ADV STUDIES-GEOPHYSICS & ASTRONOMY	110,000		
721	V/STOL AIRCRAFT TECHNOLOGY	155,980		
726	M-1 ENGINE DEVELOPMENT	3,500		
831	ORBITING ASTRONOMICAL OBSERVATORIES	13,181,384		
881	INFRARED SPECTROSCOPY /LIQUIDATION	526,321		
883	BIOSATELLITES	30,000		
914	APOLLO SPACECRAFT	76,000		
933	SATURN V VEHICLE	79,439		
940	ENGINE DEVELOPMENT	2,811		
948	AAP EXPERIMENT DEVELOPMENT	42,599	25,624,255	22,776,885

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	PROVIDENCE COLLEGE			
160	SPACE APPLICATIONS SRT	10,000	10,000	
	PURDUE UNIVERSITY			
124	SPACE VEHICLE SYSTEMS SRT	368,301		
125	ELECTRONICS SYSTEMS SRT	415,898		
126	AERONAUTICAL VEHICLES ART	170,984		
128	CHEMICAL PROPULSION SRT	568,299		
129	RESEARCH PROGRAM SRT	52,247		
180	LAUNCH VEHICLE DEVELOPMENT SRT	100,000		
181	TRAINING GRANTS	1,550,700		
182	FACILITIES GRANTS	829,380		
183	RESEARCH GRANTS	1,523,540		
185	PLANETARY EXPLORATION SRT SCIENCE	122,527		
188	PHYSICS AND ASTRONOMY SRT	455,068		
189	BIOSCIENCE SRT	53,478		
721	V/STOL AIRCRAFT TECHNOLOGY	62,228		
904	APOLLO SUPPORTING DEVELOPMENT	64,109		
933	SATURN V VEHICLE	362,639		
981	ADVANCED STUDIES-MANNED SPACE FLGT	224,998	6,924,396	5,711,386
	RENSSELAER POLY INST			
120	SPACE POWER AND ELECT PROP SYS SRT	69,200		
122	NUCLEAR ROCKETS PROPULSION SRT	93,000		
123	CHEMICAL AND SOLAR POWER SRT	23,560		
124	SPACE VEHICLE SYSTEMS SRT	685,969		
125	ELECTRONICS SYSTEMS SRT	335,354		

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	RENSSELAER POLY INST (CONTINUED)			
127	HUMAN FACTOR SYSTEMS SRT	84,000		
128	CHEMICAL PROPULSION SRT	8,200		
129	RESEARCH PROGRAM SRT	3,411,499		
150	TRACKING & DATA ACQUISITION SRT	2,453		
181	TRAINING GRANTS	1,389,800		
182	FACILITIES GRANTS	1,500,000		
183	RESEARCH GRANTS	300,000		
185	PLANETARY EXPLORATION SRT SCIENCE	823,400		
186	PLANETARY EXPLORATION SRT AD TEC DV	292,000		
188	PHYSICS AND ASTRONOMY SRT	579,782		
817	MARINER-VENUS 1967	28,000		
831	ORBITING ASTRONOMICAL OBSERVATORIES	35,100		
905	APOLLO APPLICATIONS SUPPORTING DEV	57,997		
908	ADV MANNED MISSIONS SUPP DEVELOP	40,950	9,760,264	8,336,683
	RICE UNIVERSITY			
126	AERONAUTICAL VEHICLES ART	73,090		
127	HUMAN FACTOR SYSTEMS SRT	49,330		
129	RESEARCH PROGRAM SRT	2,950,000		
150	TRACKING & DATA ACQUISITION SRT	7,272		
181	TRAINING GRANTS	1,386,700		
182	FACILITIES GRANTS	1,600,000		
183	RESEARCH GRANTS	950,000		
185	PLANETARY EXPLORATION SRT SCIENCE	212,563		
188	PHYSICS AND ASTRONOMY SRT	624,847		
385	DATA ANALYSIS	49,997		
630	APPLICATIONS TECHNOLOGY SATELLITES	288,536		

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	RICE UNIVERSITY (CONTINUED)			
841	ORBITING GEOPHYSICAL OBSERVATORIES	245,100		
848	RETURNED LUNAR SAMPLE ANALYSIS	14,355		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	70,000		
859	UNIVERSITY EXPLORERS /RICE UNIV/	4,049,999		
866	MANNED SATELLITE SCIENCE	5,975		
867	MANNED LUNAR SCIENCE	94,650		
879	SOUNDING ROCKETS	1,165,847		
883	BIOSATELLITES	190,464		
904	APOLLO SUPPORTING DEVELOPMENT	52,122		
914	APOLLO SPACECRAFT	4,786,128		
942	APOLLO APPLICATIONS DESIGN & DEV	567,234		
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	60,396	19,494,605	17,767,906
	ROSE POLYTECHNIC			
125	ELECTRONICS SYSTEMS SRT	26,000	26,000	26,000
	RUTGERS-THE STATE U			
125	ELECTRONICS SYSTEMS SRT	128,582		
181	TRAINING GRANTS	620,800		
183	RESEARCH GRANTS	29,954		
721	V/STOL AIRCRAFT TECHNOLOGY	39,578		
821	ORBITING SOLAR OBSERVATORIES	1,754,674	2,573,588	2,191,616

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	S FRANCISCO ST COL			
189	BIOSCIENCE SRT	33,823	33,823	33,823
	SAN DIEGO STATE COL			
903	GEMINI SUPPORTING DEVELOPMENT	24,418	24,418	24,417
	SAN JOSE STATE COL			
127	HUMAN FACTOR SYSTEMS SRT	125,167		
160	SPACE APPLICATIONS SRT	17,929		
189	BIOSCIENCE SRT	4,720		
879	SOUNDING ROCKETS	16,741	164,557	91,224
	SETON HALL UNIV			
129	RESEARCH PROGRAM SRT	27,423		
904	APOLLO SUPPORTING DEVELOPMENT	67,624		
923	GEMINI SUPPORT	98,741	193,788	193,788
	SO DAKOTA SCHL MINES			
125	ELECTRONICS SYSTEMS SRT	19,489		
150	TRACKING & DATA ACQUISITION SRT	9,955		
183	RESEARCH GRANTS	100,000	129,444	37,348
	SO DAKOTA STATE UNIV			
125	ELECTRONICS SYSTEMS SRT	6,330	6,330	6,262

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	SOUTHEASTERN ST COL			
141	IDENTIFICATION AND DISSEMINATION	375,764		
143	ECONOMIC STUDIES	125,000	500,764	497,721
	SOUTHERN ILLINOIS U			
124	SPACE VEHICLE SYSTEMS SRT	183,382		
127	HUMAN FACTOR SYSTEMS SRT	63,399		
129	RESEARCH PROGRAM SRT	17,558		
181	TRAINING GRANTS	93,000	357,339	312,737
	SOUTHERN METHODIST U			
101	SPACECRAFT TECHNOLOGY /LIQUIDATION/	307,073		
123	CHEMICAL AND SOLAR POWER SRT	22,368		
124	SPACE VEHICLE SYSTEMS SRT	77,700		
125	ELECTRONICS SYSTEMS SRT	50,527		
129	RESEARCH PROGRAM SRT	19,000		
160	SPACE APPLICATIONS SRT	39,683		
181	TRAINING GRANTS	270,000		
183	RESEARCH GRANTS	600,000		
190	MANNED SPACE SCIENCES SRT	208,000		
914	APOLLO SPACECRAFT	10,997		
942	APOLLO APPLICATIONS DESIGN & DEV	187,828	1,793,176	1,442,698
	SOUTHERN UNIVERSITY			
129	RESEARCH PROGRAM SRT	10,558	10,558	5,955

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	ST JOHNS UNIVERSITY			
189	BIOSCIENCE SRT	46,995	46,995	46,995
	ST JOSEPH COLLEGE			
914	APOLLO SPACECRAFT	5,500	5,500	1,375
	ST LOUIS UNIVERSITY			
126	AERONAUTICAL VEHICLES ART	36,005		
129	RESEARCH PROGRAM SRT	9,917		
130	MISSION ANALYSIS SRT	91,720		
181	TRAINING GRANTS	757,800		
189	BIOSCIENCE SRT	36,558		
721	V/STOL AIRCRAFT TECHNOLOGY	14,150		
948	AAP EXPERIMENT DEVELOPMENT	49,860	996,010	708,817
	STANFORD UNIVERSITY			
120	SPACE POWER AND ELECT PROP SYS SRT	783,049		
123	CHEMICAL AND SOLAR POWER SRT	451,986		
124	SPACE VEHICLE SYSTEMS SRT	58,413		
125	ELECTRONICS SYSTEMS SRT	1,983,968		
126	AERONAUTICAL VEHICLES ART	170,188		
127	HUMAN FACTOR SYSTEMS SRT	1,324,595		
129	RESEARCH PROGRAM SRT	2,397,025		
141	IDENTIFICATION AND DISSEMINATION	17,000		
160	SPACE APPLICATIONS SRT	393,377		
169	EARTH RESOURCES - SRT	51,808		
181	TRAINING GRANTS	3,052,058		
182	FACILITIES GRANTS	2,615,000		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	STANFORD UNIVERSITY (CONTINUED)			
185	PLANETARY EXPLORATION SRT SCIENCE	1,117,512		
188	PHYSICS AND ASTRONOMY SRT	3,826,492		
189	BIOSCIENCE SRT	3,137,078		
2110	COOLING/AERODYNAMICS FACILITY	4,950		
383	DATA ANALYSIS-LUNAR	85,026		
385	DATA ANALYSIS	303,568		
630	APPLICATIONS TECHNOLOGY SATELLITES	290,897		
684	ADVANCED STUDIES-LUNAR & PLANETARY	43,200		
721	V/STOL AIRCRAFT TECHNOLOGY	118		
797	COMMON USE SVC CARRIER ACCOUNT-OART	2,520		
808	MARINER-MARS 1964	96,441		
811	PIONEER INTERN QUIET SUN YR	3,243,944		
815	VIKING	33,502		
817	MARINER-VENUS 1967	94,778		
841	ORBITING GEOPHYSICAL OBSERVATORIES	2,846,637		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	219,029		
861	INTERPLANETARY EXPLORERS /IMP/	217,009		
873	BEACON EXPLORERS	330,556		
897	GAMMA RAY ASTRONMY SAT /LIQUIDATN/	122,526		
914	APOLLO SPACECRAFT	276,749		
942	APOLLO APPLICATIONS DESIGN & DEV	261,599		
945	MSF EXPERIMENT DEFINITION	23,000	29,875,589	25,070,127

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	STEVENS INST OF TECH			
125	ELECTRONICS SYSTEMS SRT	168,229		
126	AERONAUTICAL VEHICLES ART	108,514		
128	CHEMICAL PROPULSION SRT	186,462		
129	RESEARCH PROGRAM SRT	298,030		
181	TRAINING GRANTS	566,500		
188	PHYSICS AND ASTRONOMY SRT	27,963		
721	V/STOL AIRCRAFT TECHNOLOGY	55,000	1,410,698	1,164,992
	SUNY-ALBANY			
189	BIOSCIENCE SRT	51,601		
914	APOLLO SPACECRAFT	115,831	167,432	123,958
	SUNY-BUFFALO			
000	MISCELLANEOUS RESEARCH	151,320		
181	TRAINING GRANTS	177,000		
189	BIOSCIENCE SRT	601,787	930,107	658,731
	SUNY-STONY BROOK			
125	ELECTRONICS SYSTEMS SRT	53,579		
129	RESEARCH PROGRAM SRT	180,159		
181	TRAINING GRANTS	297,917		
183	RESEARCH GRANTS	110,000		
188	PHYSICS AND ASTRONOMY SRT	203,448		
848	RETURNED LUNAR SAMPLE ANALYSIS	379,557		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	30,000		
914	APOLLO SPACECRAFT	65,054		
942	APOLLO APPLICATIONS DESIGN & DEV	228,900	1,548,614	1,130,960

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	SYRACUSE UNIVERSITY			
000	MISCELLANEOUS RESEARCH	123,500		
124	SPACE VEHICLE SYSTEMS SRT	54,976		
126	AERONAUTICAL VEHICLES ART	183,494		
127	HUMAN FACTOR SYSTEMS SRT	15,480		
129	RESEARCH PROGRAM SRT	384,474		
143	ECONOMIC STUDIES	5,655		
160	SPACE APPLICATIONS SRT	12,000		
181	TRAINING GRANTS	948,900		
183	RESEARCH GRANTS	840,000		
189	BIOSCIENCE SRT	51,453		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	186,263	2,806,195	1,887,563
	TEMPLE UNIVERSITY			
128	CHEMICAL PROPULSION SRT	44,695		
129	RESEARCH PROGRAM SRT	6,821		
181	TRAINING GRANTS	185,800		
188	PHYSICS AND ASTRONOMY SRT	328,469		
709	SMALL SPACE VEHICLE FLIGHT PROJECT	12,115		
841	ORBITING GEOPHYSICAL OBSERVATORIES	118,600		
861	INTERPLANETARY EXPLORERS /IMP/	578,600		
879	SOUNDING ROCKETS	50,285	1,325,385	1,111,072
	TENNESSEE TECH U			
124	SPACE VEHICLE SYSTEMS SRT	13,069		
914	APOLLO SPACECRAFT	33,616	46,685	25,685
	TEXAS A&I UNIVERSITY			
914	APOLLO SPACECRAFT	11,463	11,463	

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	TEXAS A&M UNIVERSITY			
000	MISCELLANEOUS RESEARCH	80,726		
124	SPACE VEHICLE SYSTEMS SRT	628,894		
126	AERONAUTICAL VEHICLES ART	19,645		
181	TRAINING GRANTS	1,348,600		
182	FACILITIES GRANTS	1,000,000		
183	RESEARCH GRANTS	781,000		
185	PLANETARY EXPLORATION SRT SCIENCE	264,773		
721	V/STOL AIRCRAFT TECHNOLOGY	301,533		
914	APOLLO SPACECRAFT	423,845		
921	MISSION CONTROL SYSTEMS	24,792		
933	SATURN V VEHICLE	20,757		
961	AAP SPACECRAFT DEVELOPMENT	49,979		
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	11,172	4,955,716	4,199,039
	TEXAS CHRISTIAN UNIV			
124	SPACE VEHICLE SYSTEMS SRT	80,000		
125	ELECTRONICS SYSTEMS SRT	59,306		
127	HUMAN FACTOR SYSTEMS SRT	340,576		
181	TRAINING GRANTS	277,800	757,682	636,048
	TEXAS SOUTHERN UNIV			
000	MISCELLANEOUS RESEARCH	78,433	78,433	78,241
	TEXAS TECH COLLEGE			
127	HUMAN FACTOR SYSTEMS SRT	38,170		
181	TRAINING GRANTS	538,700		
866	MANNED SATELLITE SCIENCE	24,474		
914	APOLLO SPACECRAFT	3,000		

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	TEXAS TECH COLLEGE (CONTINUED)			
921	MISSION CONTROL SYSTEMS	27,021		
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	45,241	676,606	502,166
	TEXAS WOMANS UNIV			
127	HUMAN FACTOR SYSTEMS SRT	16,221		
189	BIOSCIENCE SRT	291,933		
883	BIOSATELLITES	207,663		
914	APOLLO SPACECRAFT	179,782		
923	GEMINI SUPPORT	18,500		
948	AAP EXPERIMENT DEVELOPMENT	131,583		
949	APOLLO APPLICATIONS EXPERIMENT DEF	4,024	849,706	546,375
	TUFTS UNIVERSITY			
125	ELECTRONICS SYSTEMS SRT	8,046		
127	HUMAN FACTOR SYSTEMS SRT	47,571		
180	LAUNCH VEHICLE DEVELOPMENT SRT	10,759		
181	TRAINING GRANTS	231,700	298,076	267,298
	TULANE UNIVERSITY			
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	111,800		
124	SPACE VEHICLE SYSTEMS SRT	65,967		
125	ELECTRONICS SYSTEMS SRT	26,000		
127	HUMAN FACTOR SYSTEMS SRT	159,449		
129	RESEARCH PROGRAM SRT	172,711		
160	SPACE APPLICATIONS SRT	34,499		
181	TRAINING GRANTS	824,800		
933	SATURN V VEHICLE	188,454	1,583,680	1,371,748

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	TUSKEGEE INSTITUTE			
183	RESEARCH GRANTS	23,750	23,750	
	UNION COLLEGE			
129	RESEARCH PROGRAM SRT	20,000	20,000	15,000
	UNIV ALA-BIRMINGHAM			
127	HUMAN FACTOR SYSTEMS SRT	15,000	15,000	
	UNIV ALA-HUNTSVILLE			
120	SPACE POWER AND ELECT PROP SYS SRT	60,000		
124	SPACE VEHICLE SYSTEMS SRT	39,995		
125	ELECTRONICS SYSTEMS SRT	6,638		
932	SATURN 1B VEHICLE	15,196		
933	SATURN V VEHICLE	392,093		
964	SATURN I WORKSHOP	74,388	588,310	184,358
	UNIV ALA-TUSCALOOSA			
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	185,882		
120	SPACE POWER AND ELECT PROP SYS SRT	145,370		
124	SPACE VEHICLE SYSTEMS SRT	517,237		
125	ELECTRONICS SYSTEMS SRT	565,955		
129	RESEARCH PROGRAM SRT	758,126		
150	TRACKING & DATA ACQUISITION SRT	189,219		
181	TRAINING GRANTS	1,214,208		
183	RESEARCH GRANTS	2,445,995		
904	APOLLO SUPPORTING DEVELOPMENT	235,007		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV ALA-TUSCALOOSA (CONTINUED)			
931	SATURN I VEHICLE	49,040		
932	SATURN 1B VEHICLE	73,921		
933	SATURN V VEHICLE	697,348		
945	MSF EXPERIMENT DEFINITION	99,939	7,177,247	6,025,594
	UNIV CALIF-BERKELEY			
000	MISCELLANEOUS RESEARCH	420,012		
120	SPACE POWER AND ELECT PROP SYS SRT	457,620		
123	CHEMICAL AND SOLAR POWER SRT	69,933		
124	SPACE VEHICLE SYSTEMS SRT	202,562		
125	ELECTRONICS SYSTEMS SRT	576,870		
126	AERONAUTICAL VEHICLES ART	20,700		
127	HUMAN FACTOR SYSTEMS SRT	2,121,630		
129	RESEARCH PROGRAM SRT	910,548		
141	IDENTIFICATION AND DISSEMINATION	337,960		
143	ECONOMIC STUDIES	650,000		
160	SPACE APPLICATIONS SRT	93,575		
181	TRAINING GRANTS	1,063,800		
182	FACILITIES GRANTS	1,990,000		
183	RESEARCH GRANTS	2,959,775		
185	PLANETARY EXPLORATION SRT SCIENCE	2,055,945		
186	PLANETARY EXPLORATION SRT AD TEC DV	129,700		
188	PHYSICS AND ASTRONOMY SRT	4,070,579		
189	BIOSCIENCE SRT	7,089,254		
195	LUNAR SCIENCE SRT	52,387		
385	DATA ANALYSIS	185,555		
630	APPLICATIONS TECHNOLOGY SATELLITES	650,849		
815	VIKING	3,000		
831	ORBITING ASTRONOMICAL OBSERVATORIES	142,898		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV CALIF-BERKELEY	(CONTINUED)		
841	ORBITING GEOPHYSICAL OBSERVATORIES	1,393,169		
848	RETURNED LUNAR SAMPLE ANALYSIS	397,000		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	1,229,087		
861	INTERPLANETARY EXPLORERS /IMP/	1,558,343		
866	MANNED SATELLITE SCIENCE	500,000		
879	SOUNDING ROCKETS	515,196		
881	INFRARED SPECTROSCOPY /LIQUIDATION	336,318		
883	BIOSATELLITES	1,200,000		
904	APOLLO SUPPORTING DEVELOPMENT	55,561		
905	APOLLO APPLICATIONS SUPPORTING DEV	64,861		
914	APOLLO SPACECRAFT	1,533,714		
933	SATURN V VEHICLE	144,000		
942	APOLLO APPLICATIONS DESIGN & DEV	175,000		
945	MSF EXPERIMENT DEFINITION	1,645,861		
948	AAP EXPERIMENT DEVELOPMENT	50,000		
949	APOLLO APPLICATIONS EXPERIMENT DEF	50,000		
961	AAP SPACECRAFT DEVELOPMENT	50,000		
964	SATURN I WORKSHOP	74,569		
975	SPACE STATION	492,435		
981	ADVANCED STUDIES-MANNED SPACE FLGT	111,757	37,832,023	31,539,389
	UNIV CALIF-DAVIS			
125	ELECTRONICS SYSTEMS SRT	28,881		
126	AERONAUTICAL VEHICLES ART	8,720		

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UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV CALIF-DAVIS (CONTINUED)			
127	HUMAN FACTOR SYSTEMS SRT	261,913		
129	RESEARCH PROGRAM SRT	28,500		
188	PHYSICS AND ASTRONOMY SRT	27,802		
189	BIOSCIENCE SRT	559,489		
708	SMALL BIOTECHNOLOGY FLIGHTS/LIQUID	552,719		
945	MSF EXPERIMENT DEFINITION	86,590		
949	APOLLO APPLICATIONS EXPERIMENT DEF	33,378	1,587,992	1,008,217
	UNIV CALIF-L ANGELES			
000	MISCELLANEOUS RESEARCH	110,000		
124	SPACE VEHICLE SYSTEMS SRT	351,400		
125	ELECTRONICS SYSTEMS SRT	440,224		
127	HUMAN FACTOR SYSTEMS SRT	732,710		
143	ECONOMIC STUDIES	119,013		
160	SPACE APPLICATIONS SRT	710,330		
164	COMMUNICATION AND NAVIGATION SRT	40,000		
181	TRAINING GRANTS	1,635,592		
182	FACILITIES GRANTS	2,000,000		
183	RESEARCH GRANTS	3,335,999		
185	PLANETARY EXPLORATION SRT SCIENCE	1,287,493		
186	PLANETARY EXPLORATION SRT AD TEC DV	24,800		
188	PHYSICS AND ASTRONOMY SRT	1,128,111		
189	BIOSCIENCE SRT	1,292,911		
190	MANNED SPACE SCIENCES SRT	193,000		
195	LUNAR SCIENCE SRT	68,000		
385	DATA ANALYSIS	193,270		
610	COPP APPLICATIONS SATELLITE	64,379		
630	APPLICATIONS TECHNOLOGY SATELLITES	576,397		
685	ADV STUDIES-GEOPHYSICS & ASTRONOMY	113,474		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV CALIF-L ANGELES	(CONTINUED)		
808	MARINER-MARS 1964	109,962		
814	LUNAR ORBITER	31,287		
817	MARINER-VENUS 1967	199,810		
841	ORBITING GEOPHYSICAL OBSERVATORIES	1,613,550		
848	RETURNED LUNAR SAMPLE ANALYSIS	27,600		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	447,662		
855	GEODETIC SATELLITES	51,295		
866	MANNED SATELLITE SCIENCE	132,000		
883	BIOSATELLITES	7,800,601		
903	GEMINI SUPPORTING DEVELOPMENT	99,618		
905	APOLLO APPLICATIONS SUPPORTING DEV	32,230		
911	MERCURY /FOR LIQUIDATION ONLY/	149,202		
914	APOLLO SPACECRAFT	338,673		
923	GEMINI SUPPORT	100,577		
945	MSF EXPERIMENT DEFINITION	778,164		
949	APOLLO APPLICATIONS EXPERIMENT DEF	48,499	26,377,833	19,879,223
	UNIV CALIF-RIVERSIDE			
160	SPACE APPLICATIONS SRT	20,000		
181	TRAINING GRANTS	228,100		
188	PHYSICS AND ASTRONOMY SRT	111,953	360,053	253,897
	UNIV CALIF-S BARBARA			
124	SPACE VEHICLE SYSTEMS SRT	11,327		
125	ELECTRONICS SYSTEMS SRT	14,859		
126	AERONAUTICAL VEHICLES ART	30,368		
127	HUMAN FACTOR SYSTEMS SRT	81,945		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV CALIF-S BARBARA	(CONTINUED)		
129	RESEARCH PROGRAM SRT	56,434		
181	TRAINING GRANTS	218,966		
185	PLANETARY EXPLORATION SRT SCIENCE	50,669		
188	PHYSICS AND ASTRONOMY SRT	315,137		
189	BIOSCIENCE SRT	35,000		
195	LUNAR SCIENCE SRT	25,000	839,705	561,904
	UNIV CALIF-S CRUZ			
125	ELECTRONICS SYSTEMS SRT	50,000		
129	RESEARCH PROGRAM SRT	44,274		
188	PHYSICS AND ASTRONOMY SRT	159,997		
945	MSF EXPERIMENT DEFINITION	96,450	350,721	111,848
	UNIV CALIF-SAN DIEGO			
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	232,732		
120	SPACE POWER AND ELECT PROP SYS SRT	314,117		
125	ELECTRONICS SYSTEMS SRT	103,169		
127	HUMAN FACTOR SYSTEMS SRT	645,573		
129	RESEARCH PROGRAM SRT	398,242		
160	SPACE APPLICATIONS SRT	90,000		
181	TRAINING GRANTS	546,700		
183	RESEARCH GRANTS	80,000		
185	PLANETARY EXPLORATION SRT SCIENCE	1,587,118		
188	PHYSICS AND ASTRONOMY SRT	2,387,394		
189	BIOSCIENCE SRT	372,747		
194	ADV PLAN MISSIONS TECH APMT	30,000		
195	LUNAR SCIENCE SRT	261,000		
385	DATA ANALYSIS	193,568		
626	RELAY	116,500		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV CALIF-SAN DIEGO (CONTINUED)			
630	APPLICATIONS TECHNOLOGY SATELLITES	1,397,400		
815	VIKING	689		
821	ORBITING SOLAR OBSERVATORIES	1,757,913		
831	ORBITING ASTRONOMICAL OBSERVATORIES	177,923		
848	RETURNED LUNAR SAMPLE ANALYSIS	194,160		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	495,445		
851	ENERGETIC PARTICLES EXPLORERS	497,625		
879	SOUNDING ROCKETS	239,958		
914	APOLLO SPACECRAFT	208,991		
923	GEMINI SUPPORT	222,000		
924	APOLLO SPACE OPERATIONS	10,000		
940	ENGINE DEVELOPMENT	20,000		
945	MSF EXPERIMENT DEFINITION	164,714	12,745,678	10,008,986
	UNIV CALIF-SAN FRAN			
127	HUMAN FACTOR SYSTEMS SRT	297,807		
708	SMALL BIOTECHNOLOGY FLIGHTS/LIQUID	21,298	319,105	223,250
	UNIV ILLINOIS-CHICGO			
129	RESEARCH PROGRAM SRT	123,890		
189	BIOSCIENCE SRT	231,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	21,957	376,847	268,147

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV ILLINOIS-URBANA			
120	SPACE POWER AND ELECT PROP SYS SRT	135,415		
123	CHEMICAL AND SOLAR POWER SRT	118,816		
124	SPACE VEHICLE SYSTEMS SRT	181,659		
125	ELECTRONICS SYSTEMS SRT	163,802		
127	HUMAN FACTOR SYSTEMS SRT	1,369,988		
129	RESEARCH PROGRAM SRT	325,346		
150	TRACKING & DATA ACQUISITION SRT	9,806		
164	COMMUNICATION AND NAVIGATION SRT	147,000		
181	TRAINING GRANTS	1,267,300		
182	FACILITIES GRANTS	1,125,000		
185	PLANETARY EXPLORATION SRT SCIENCE	306,335		
188	PHYSICS AND ASTRONOMY SRT	1,089,959		
189	BIOSCIENCE SRT	315,988		
385	DATA ANALYSIS	175,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	154,031		
873	BEACON EXPLORERS	399,325		
879	SOUNDING ROCKETS	1,579,895		
933	SATURN V VEHICLE	29,304	8,893,969	7,870,783
	UNIV MO-COLUMBIA			
125	ELECTRONICS SYSTEMS SRT	70,742		
127	HUMAN FACTOR SYSTEMS SRT	34,000		
143	ECONOMIC STUDIES	175,926		
181	TRAINING GRANTS	866,400		
183	RESEARCH GRANTS	650,000		
189	BIOSCIENCE SRT	351,995		
311	NETWORK OPERATIONS-T&D ACQUISITION	22,130		
855	GEODETIC SATELLITES	45,000		
914	APOLLO SPACECRAFT	20,000	2,236,193	1,825,158

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV MO-KANSAS CITY			
000	MISCELLANEOUS RESEARCH	255,509		
124	SPACE VEHICLE SYSTEMS SRT	42,870		
127	HUMAN FACTOR SYSTEMS SRT	155,783		
189	BIOSCIENCE SRT	67,200	521,362	361,844
	UNIV MO-ROLLA			
124	SPACE VEHICLE SYSTEMS SRT	68,054		
129	RESEARCH PROGRAM SRT	34,696		
181	TRAINING GRANTS	473,700		
189	BIOSCIENCE SRT	38,730	615,180	535,713
	UNIV N CAR-CHPL HILL			
000	MISCELLANEOUS RESEARCH	167,734		
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	32,359		
125	ELECTRONICS SYSTEMS SRT	92,986		
181	TRAINING GRANTS	880,600		
183	RESEARCH GRANTS	523,000		
188	PHYSICS AND ASTRONOMY SRT	98,653		
311	NETWORK OPERATIONS-T&D ACQUISITION	3,000		
879	SOUNDING ROCKETS	36,851		
923	GEMINI SUPPORT	6,129		
931	SATURN I VEHICLE	15,465	1,856,777	950,262
	UNIV NEBRASKA-LINCLN			
181	TRAINING GRANTS	382,800	382,800	323,680
	UNIV NEW HAMPSHIRE			
000	MISCELLANEOUS RESEARCH	89,558		

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WHOLE DOLLARS

UPN FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV NEW HAMPSHIRE (CONTINUED)			
120	SPACE POWER AND ELECT PROP SYS SRT	15,500		
125	ELECTRONICS SYSTEMS SRT	60,000		
160	SPACE APPLICATIONS SRT	24,974		
181	TRAINING GRANTS	353,000		
188	PHYSICS AND ASTRONOMY SRT	1,354,215		
385	DATA ANALYSIS	31,863		
630	APPLICATIONS TECHNOLOGY SATELLITES	287,100		
811	PIONEER INTERN QUIET SUN YR	11,000		
821	ORBITING SOLAR OBSERVATORIES	896,706		
841	ORBITING GEOPHYSICAL OBSERVATORIES	813,200		
851	ENERGETIC PARTICLES EXPLORERS	229,110		
852	ATMOSPHERE EXPLORERS	25		
857	SMALL SCIENTIFIC SATELLITES (SSS)	125,000		
879	SOUNDING ROCKETS	660,720	4,951,971	3,666,641
	UNIV OF AKRON			
126	AERONAUTICAL VEHICLES ART	4,000	4,000	1,000
	UNIV OF ALASKA			
125	ELECTRONICS SYSTEMS SRT	164,495		
150	TRACKING & DATA ACQUISITION SRT	79,134		
181	TRAINING GRANTS	199,600		
188	PHYSICS AND ASTRONOMY SRT	867,487		
189	BIOSCIENCE SRT	227,950		
190	MANNED SPACE SCIENCES SRT	89,312		
311	NETWORK OPERATIONS-T&D ACQUISITION	3,240,174		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF ALASKA (CONTINUED)			
385	DATA ANALYSIS	80,042		
5101	SPACE PROJECTS CENTER	115,000		
604	NIMBUS	48,000		
607	METEOROLOGICAL SOUNDINGS	3,718		
841	ORBITING GEOPHYSICAL OBSERVATORIES	24,750		
851	ENERGETIC PARTICLES EXPLORERS	44,442		
861	INTERPLANETARY EXPLORERS /IMP/	30,750		
879	SOUNDING ROCKETS	409,028		
9101	EQUIPMENT AND INSTRUMENTATION	195,000		
9106	DATA ACQUISITION FACILITY	1,534,208		
914	APOLLO SPACECRAFT	371,059	7,724,149	7,286,113
	UNIV OF ARIZONA			
000	MISCELLANEOUS RESEARCH	56,120		
120	SPACE POWER AND ELECT PROP SYS SRT	69,218		
122	NUCLEAR ROCKETS PROPULSION SRT	285,032		
124	SPACE VEHICLE SYSTEMS SRT	42,798		
125	ELECTRONICS SYSTEMS SRT	300,723		
129	RESEARCH PROGRAM SRT	62,962		
160	SPACE APPLICATIONS SRT	100,000		
169	EARTH RESOURCES - SRT	73,200		
181	TRAINING GRANTS	906,300		
182	FACILITIES GRANTS	1,167,977		
183	RESEARCH GRANTS	600,000		
185	PLANETARY EXPLORATION SRT SCIENCE	2,990,139		
188	PHYSICS AND ASTRONOMY SRT	2,043,273		
189	BIOSCIENCE SRT	138,498		
190	MANNED SPACE SCIENCES SRT	88,563		
195	LUNAR SCIENCE SRT	165,000		

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF ARIZONA (CONTINUED)			
383	DATA ANALYSIS-LUNAR	25,000		
701	SNAP-8 DEVELOPMENT PROJECT	10,000		
797	COMMON USE SVC CARRIER ACCOUNT-OART	36,142		
831	ORBITING ASTRONOMICAL OBSERVATORIES	1,251,347		
904	APOLLO SUPPORTING DEVELOPMENT	60,000		
911	MERCURY /FOR LIQUIDATION ONLY/	32,023		
914	APOLLO SPACECRAFT	127,800		
933	SATURN V VEHICLE	95,000		
942	APOLLO APPLICATIONS DESIGN & DEV	74,461		
945	MSF EXPERIMENT DEFINITION	124,660		
981	ADVANCED STUDIES-MANNED SPACE FLGT	70,656	10,996,892	8,480,220
	UNIV OF ARKANSAS			
124	SPACE VEHICLE SYSTEMS SRT	37,010		
125	ELECTRONICS SYSTEMS SRT	282,111		
127	HUMAN FACTOR SYSTEMS SRT	57,495		
129	RESEARCH PROGRAM SRT	23,902		
181	TRAINING GRANTS	742,600		
185	PLANETARY EXPLORATION SRT SCIENCE	16,880		
188	PHYSICS AND ASTRONOMY SRT	39,730		
841	ORBITING GEOPHYSICAL OBSERVATORIES	20,511	1,220,239	996,545
	UNIV OF BRIDGEPORT			
700	MISCELLANEOUS RESEARCH	5,185	5,185	5,184

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF CHICAGO			
129	RESEARCH PROGRAM SRT	550,000		
143	ECONOMIC STUDIES	92,000		
160	SPACE APPLICATIONS SRT	232,103		
181	TRAINING GRANTS	1,623,600		
182	FACILITIES GRANTS	1,749,039		
185	PLANETARY EXPLORATION SRT SCIENCE	1,391,718		
188	PHYSICS AND ASTRONOMY SRT	4,626,787		
189	BIOSCIENCE SRT	1,791,157		
383	DATA ANALYSIS-LUNAR	106,202		
385	DATA ANALYSIS	508,000		
808	MARINER-MARS 1964	140,509		
811	PIONEER INTERN QUIET SUN YR	1,317,227		
841	ORBITING GEOPHYSICAL OBSERVATORIES	3,746,755		
848	RETURNED LUNAR SAMPLE ANALYSIS	53,573		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	8,500		
861	INTERPLANETARY EXPLORERS /IMP/	2,480,904		
914	APOLLO SPACECRAFT	319,000		
945	MSF EXPERIMENT DEFINITION	99,398	20,836,472	17,790,279
	UNIV OF CINCINNATI			
120	SPACE POWER AND ELECT PROP SYS SRT	280,594		
124	SPACE VEHICLE SYSTEMS SRT	127,280		
125	ELECTRONICS SYSTEMS SRT	428,810		
127	HUMAN FACTOR SYSTEMS SRT	44,034		
181	TRAINING GRANTS	623,800		
183	RESEARCH GRANTS	600,000		
188	PHYSICS AND ASTRONOMY SRT	178,000	2,282,518	1,936,665

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF COLORADO			
000	MISCELLANEOUS RESEARCH	29,374		
125	ELECTRONICS SYSTEMS SRT	66,427		
126	AERONAUTICAL VEHICLES ART	14,275		
127	HUMAN FACTOR SYSTEMS SRT	10,000		
129	RESEARCH PROGRAM SRT	94,223		
143	ECONOMIC STUDIES	117,562		
181	TRAINING GRANTS	949,400		
182	FACILITIES GRANTS	792,000		
185	PLANETARY EXPLORATION SRT SCIENCE	1,029,651		
188	PHYSICS AND ASTRONOMY SRT	675,903		
189	BIOSCIENCE SRT	102,504		
194	ADV PLAN MISSIONS TECH APMT	238,705		
385	DATA ANALYSIS	18,000		
684	ADVANCED STUDIES-LUNAR & PLANETARY	4,998		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	41,648		
815	VIKING	9,484		
817	MARINER-VENUS 1967	27,972		
821	ORBITING SOLAR OBSERVATORIES	816,505		
841	ORBITING GEOPHYSICAL OBSERVATORIES	1,227,900		
879	SOUNDING ROCKETS	752,524	7,019,055	5,239,026
	UNIV OF CONNECTICUT			
120	SPACE POWER AND ELECT PROP SYS SRT	191,527		
125	ELECTRONICS SYSTEMS SRT	243,890		
141	IDENTIFICATION AND DISSEMINATION	629,648		
164	COMMUNICATION AND NAVIGATION SRT	33,318		
181	TRAINING GRANTS	629,600		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF CONNECTICUT (CONTINUED)			
914	APOLLO SPACECRAFT	14,769	1,742,752	1,479,197
	UNIV OF DELAWARE			
000	MISCELLANEOUS RESEARCH	11,660		
123	CHEMICAL AND SOLAR POWER SRT	53,964		
129	RESEARCH PROGRAM SRT	130,102		
181	TRAINING GRANTS	584,400	780,126	654,343
	UNIV OF DENVER			
123	CHEMICAL AND SOLAR POWER SRT	116,954		
124	SPACE VEHICLE SYSTEMS SRT	64,983		
125	ELECTRONICS SYSTEMS SRT	168,761		
126	AERONAUTICAL VEHICLES ART	24,750		
127	HUMAN FACTOR SYSTEMS SRT	19,412		
128	CHEMICAL PROPULSION SRT	218,601		
129	RESEARCH PROGRAM SRT	202,688		
141	IDENTIFICATION AND DISSEMINATION	798,354		
181	TRAINING GRANTS	461,222		
182	FACILITIES GRANTS	900,000		
183	RESEARCH GRANTS	993,251		
311	NETWORK OPERATIONS-T&D ACQUISITION	16,000		
385	DATA ANALYSIS	69,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	25,510		
855	GEODETIC SATELLITES	45,000		
861	INTERPLANETARY EXPLORERS /IMP/	26,600		
890	SCOUT DEVELOPMENT /LIQUIDATN ONLY/	240		
904	APOLLO SUPPORTING DEVELOPMENT	10,946		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF DENVER	(CONTINUED)		
933	SATURN V VEHICLE	29,455	4,191,727	3,097,323
	UNIV OF DETROIT			
189	BIOSCIENCE SRT	131,760	131,760	120,163
	UNIV OF FLORIDA			
000	MISCELLANEOUS RESEARCH	40,000		
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	55,716		
105	LAUNCH OPERATION TECH /LIQUIDATION	38,175		
120	SPACE POWER AND ELECT PROP SYS SRT	34,776		
122	NUCLEAR ROCKETS PROPULSION SRT	30,848		
123	CHEMICAL AND SOLAR POWER SRT	92,016		
124	SPACE VEHICLE SYSTEMS SRT	106,563		
127	HUMAN FACTOR SYSTEMS SRT	47,579		
128	CHEMICAL PROPULSION SRT	102,499		
129	RESEARCH PROGRAM SRT	509,574		
181	TRAINING GRANTS	885,300		
182	FACILITIES GRANTS	1,190,000		
183	RESEARCH GRANTS	1,800,000		
185	PLANETARY EXPLORATION SRT SCIENCE	164,200		
188	PHYSICS AND ASTRONOMY SRT	332,972		
189	BIOSCIENCE SRT	54,612		
731	CHEMICAL ROCKET EXPER ENGINEERING	72,679		
831	ORBITING ASTRONOMICAL OBSERVATORIES	3,228		
904	APOLLO SUPPORTING DEVELOPMENT	330,235		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF FLORIDA	(CONTINUED)		
931	SATURN I VEHICLE	2,000		
933	SATURN V VEHICLE	63,718	5,956,690	5,118,674
	UNIV OF GEORGIA			
124	SPACE VEHICLE SYSTEMS SRT	39,451		
141	IDENTIFICATION AND DISSEMINATION	528,074		
181	TRAINING GRANTS	652,800		
188	PHYSICS AND ASTRONOMY SRT	40,000		
189	BIOSCIENCE SRT	69,900		
818	VOYAGER	29,984		
933	SATURN V VEHICLE	108,847	1,469,056	1,102,990
	UNIV OF HAWAII			
125	ELECTRONICS SYSTEMS SRT	26,981		
127	HUMAN FACTOR SYSTEMS SRT	216,569		
160	SPACE APPLICATIONS SRT	71,788		
181	TRAINING GRANTS	229,800		
185	PLANETARY EXPLORATION SRT SCIENCE	3,856,164		
188	PHYSICS AND ASTRONOMY SRT	2,912,043		
189	BIOSCIENCE SRT	188,408		
855	GEODETIC SATELLITES	112,704		
879	SOUNDING ROCKETS	607,882		
945	MSF EXPERIMENT DEFINITION	24,847	8,247,186	6,525,643
	UNIV OF HOUSTON			
000	MISCELLANEOUS RESEARCH	2,878		
127	HUMAN FACTOR SYSTEMS SRT	151,800		
129	RESEARCH PROGRAM SRT	20,196		
181	TRAINING GRANTS	1,594,999		
183	RESEARCH GRANTS	425,000		

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF HOUSTON (CONTINUED)			
185	PLANETARY EXPLORATION SRT SCIENCE	139,617		
188	PHYSICS AND ASTRONOMY SRT	12,375		
189	BIOSCIENCE SRT	508,833		
815	VIKING	2,260		
848	RETURNED LUNAR SAMPLE ANALYSIS	10,000		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	99,600		
904	APOLLO SUPPORTING DEVELOPMENT	161,578		
908	ADV MANNED MISSIONS SUPP DEVELOP	59,074		
912	MANNED ONE-DAY MISSION /LIQUIDATN/	33,454		
913	GEMINI SPACECRAFT	138,472		
914	APOLLO SPACECRAFT	738,921		
921	MISSION CONTROL SYSTEMS	130,499		
923	GEMINI SUPPORT	31,274		
942	APOLLO APPLICATIONS DESIGN & DEV	80,000		
948	AAP EXPERIMENT DEVELOPMENT	27,159		
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	288,148	4,656,137	3,185,798
	UNIV OF IDAHO			
181	TRAINING GRANTS	177,900	177,900	152,118
	UNIV OF IOWA			
129	RESEARCH PROGRAM SRT	44,168		
181	TRAINING GRANTS	1,243,300		
182	FACILITIES GRANTS	536,180		
188	PHYSICS AND ASTRONOMY SRT	2,317,507		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF IOWA	(CONTINUED)		
189	BIOSCIENCE SRT	36,229		
311	NETWORK OPERATIONS-T&D ACQUISITION	657,000		
385	DATA ANALYSIS	318,000		
626	RELAY	177,103		
811	PIONEER INTERN QUIET SUN YR	300,000		
841	ORBITING GEOPHYSICAL OBSERVATORIES	765,900		
851	ENERGETIC PARTICLES EXPLORERS	717,298		
857	SMALL SCIENTIFIC SATELLITES (SSS)	80,000		
861	INTERPLANETARY EXPLORERS /IMP/	1,453,942		
863	AIR DENSITY/INJUN EXPLORERS	4,493,773		
879	SOUNDING ROCKETS	296,197		
911	MERCURY /FOR LIQUIDATION ONLY/	38,270		
923	GEMINI SUPPORT	8,040	13,482,907	11,570,942
	UNIV OF KANSAS			
125	ELECTRONICS SYSTEMS SRT	133,097		
126	AERONAUTICAL VEHICLES ART	51,090		
160	SPACE APPLICATIONS SRT	245,000		
169	EARTH RESOURCES - SRT	162,050		
181	TRAINING GRANTS	1,017,700		
182	FACILITIES GRANTS	1,800,000		
183	RESEARCH GRANTS	985,000		
185	PLANETARY EXPLORATION SRT SCIENCE	56,370		
189	BIOSCIENCE SRT	83,266		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	10,000		
866	MANNED SATELLITE SCIENCE	507,217		

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WHOLE DOLLARS

UPN FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF KANSAS (CONTINUED)			
965	APOLLO TELESCOPE MOUNT	4,990		
981	ADVANCED STUDIES-MANNED SPACE FLGT	230,451	5,286,231	3,026,418
	UNIV OF KENTUCKY			
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	31,611		
124	SPACE VEHICLE SYSTEMS SRT	105,216		
125	ELECTRONICS SYSTEMS SRT	19,982		
129	RESEARCH PROGRAM SRT	117,247		
181	TRAINING GRANTS	537,600		
189	BIOSCIENCE SRT	1,193,247		
848	RETURNED LUNAR SAMPLE ANALYSIS	30,000		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	150,000		
914	APOLLO SPACECRAFT	122,000		
931	SATURN I VEHICLE	20,000	2,326,903	1,919,545
	UNIV OF LOUISVILLE			
127	HUMAN FACTOR SYSTEMS SRT	188,125		
181	TRAINING GRANTS	246,200		
183	RESEARCH GRANTS	322,542		
189	BIOSCIENCE SRT	30,115	786,982	687,012
	UNIV OF MAINE-ORONO			
181	TRAINING GRANTS	325,800		
183	RESEARCH GRANTS	406,250	732,050	562,483

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF MARYLAND			
120	SPACE POWER AND ELECT PROP SYS SRT	180,180		
122	NUCLEAR ROCKETS PROPULSION SRT	55,408		
125	ELECTRONICS SYSTEMS SRT	393,376		
127	HUMAN FACTOR SYSTEMS SRT	880,744		
129	RESEARCH PROGRAM SRT	350,104		
141	IDENTIFICATION AND DISSEMINATION	406,169		
150	TRACKING & DATA ACQUISITION SRT	19,000		
160	SPACE APPLICATIONS SRT	25,000		
181	TRAINING GRANTS	1,417,704		
182	FACILITIES GRANTS	1,500,000		
183	RESEARCH GRANTS	2,220,000		
185	PLANETARY EXPLORATION SRT SCIENCE	1,169,201		
188	PHYSICS AND ASTRONOMY SRT	2,574,685		
189	BIOSCIENCE SRT	2,011,767		
190	MANNED SPACE SCIENCES SRT	40,046		
195	LUNAR SCIENCE SRT	90,150		
384	DATA ANALYSIS-PLANETARY	8,000		
385	DATA ANALYSIS	242,314		
5113	LAUNCH PHASE SIMULATOR	23,658		
821	ORBITING SOLAR OBSERVATORIES	67,000		
822	ADV ORBITING SOLAR OBSERVATORIES	42,301		
841	ORBITING GEOPHYSICAL OBSERVATORIES	176,600		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	72,000		
851	ENERGETIC PARTICLES EXPLORERS	58,438		
852	ATMOSPHERE EXPLORERS	30,058		
861	INTERPLANETARY EXPLORERS /IMP/	399,699		
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY	229,363		

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF MARYLAND	(CONTINUED)		
873	BEACON EXPLORERS	8,000		
877	RADIO ASTRONOMY EXPLORERS	26,607		
879	SOUNDING ROCKETS	572,324		
914	APOLLO SPACECRAFT	1,429,686		
923	GEMINI SUPPORT	15,000		
942	APOLLO APPLICATIONS DESIGN & DEV	100,000		
945	MSF EXPERIMENT DEFINITION	35,575		
981	ADVANCED STUDIES-MANNED SPACE FLGT	45,000	16,915,157	14,508,202
	UNIV OF MASSACHUSETT			
125	ELECTRONICS SYSTEMS SRT	115,630		
129	RESEARCH PROGRAM SPT	17,657		
160	SPACE APPLICATIONS SRT	41,617		
181	TRAINING GRANTS	293,100		
185	PLANETARY EXPLORATION SRT SCIENCE	51,932		
188	PHYSICS AND ASTRONOMY SRT	294,381		
189	BIOSCIENCE SRT	51,440	865,757	601,189
	UNIV OF MIAMI			
000	MISCELLANEOUS RESEARCH	20,057		
122	NUCLEAR ROCKETS PROPULSION SRT	143,170		
125	ELECTRONICS SYSTEMS SRT	15,000		
129	RESEARCH PROGRAM SPT	73,700		
143	ECONOMIC STUDIES	81,432		
160	SPACE APPLICATIONS SRT	115,685		
180	LAUNCH VEHICLE DEVELOPMENT SRT	28,091		
181	TRAINING GRANTS	465,200		
183	RESEARCH GRANTS	1,521,387		
185	PLANETARY EXPLORATION SRT SCIENCE	199,260		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF MIAMI (CONTINUED)			
188	PHYSICS AND ASTRONOMY SRT	62,257		
189	BIOSCIENCE SRT	1,018,695		
731	CHEMICAL ROCKET EXPER ENGINEERING	120,481		
848	RETURNED LUNAR SAMPLE ANALYSIS	50,000		
914	APOLLO SPACECRAFT	82,500	3,996,915	2,871,786
	UNIV OF MICHIGAN			
000	MISCELLANEOUS RESEARCH	256,955		
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	279,999		
120	SPACE POWER AND ELECT PROP SYS SRT	147,129		
124	SPACE VEHICLE SYSTEMS SRT	415,312		
125	ELECTRONICS SYSTEMS SRT	1,537,521		
126	AERONAUTICAL VEHICLES ART	272,681		
127	HUMAN FACTOR SYSTEMS SRT	33,455		
128	CHEMICAL PROPULSION SRT	699,023		
129	RESEARCH PROGRAM SRT	1,204,221		
150	TRACKING & DATA ACQUISITION SRT	20,001		
160	SPACE APPLICATIONS SRT	3,976,384		
164	COMMUNICATION AND NAVIGATION SRT	128,960		
169	EARTH RESOURCES - SRT	97,500		
181	TRAINING GRANTS	1,409,900		
182	FACILITIES GRANTS	1,436,000		
183	RESEARCH GRANTS	4,700		
185	PLANETARY EXPLORATION SRT SCIENCE	820,681		
186	PLANETARY EXPLORATION SRT AD TEC DV	70,000		
188	PHYSICS AND ASTRONOMY SRT	1,162,214		
189	BIOSCIENCE SRT	225,406		
385	DATA ANALYSIS	61,210		

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF MICHIGAN (CONTINUED)			
601	TIROS/TOS IMPROVEMENTS	47,500		
604	NIMBUS	100,000		
607	METEOROLOGICAL SOUNDINGS	2,498,724		
610	COPP APPLICATIONS SATELLITE	275		
640	EARTH RESOURCES SURVEY-AIRCRAFT	189,440		
685	ADV STUDIES-GEOPHYSICS & ASTRONOMY	175,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	179,374		
803	SURVEYOR	188,886		
806	MARINER A /FOR LIQUIDATN ONLY/	50,000		
821	ORBITING SOLAR OBSERVATORIES	426,044		
841	ORBITING GEOPHYSICAL OBSERVATORIES	5,789,253		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	290,314		
852	ATMOSPHERE EXPLORERS	153,356		
861	INTERPLANETARY EXPLORERS /IMP/	75,000		
866	MANNED SATELLITE SCIENCE	86,700		
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY	53,150		
873	BEACON EXPLORERS	20,000		
877	RADIO ASTRONOMY EXPLORERS	100,000		
879	SOUNDING ROCKETS	5,662,748		
894	JOINT ITALIAN/UNITED STATES PROJECT	276,720		
908	ADV MANNED MISSIONS SUPP DEVELOP	169,159		
911	MERCURY /FOR LIQUIDATION ONLY/	29,456		
931	SATURN I VEHICLE	139,669		
932	SATURN IB VEHICLE	239,902		
933	SATURN V VEHICLE	914,816		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF MICHIGAN	(CONTINUED)		
945	MSF EXPERIMENT DEFINITION	49,000		
948	AAP EXPERIMENT DEVELOPMENT	160,954		
975	SPACE STATION	40,000		
981	ADVANCED STUDIES-MANNED SPACE FLGT	100,000	32,464,692	29,784,236
	UNIV OF MINNESOTA			
000	MISCELLANEOUS RESEARCH	22,297		
120	SPACE POWER AND ELECT PROP SYS SRT	299,038		
124	SPACE VEHICLE SYSTEMS SRT	71,794		
125	ELECTRONICS SYSTEMS SRT	20,315		
127	HUMAN FACTOR SYSTEMS SRT	465,280		
128	CHEMICAL PROPULSION SRT	101,388		
129	RESEARCH PROGRAM SRT	163,104		
141	IDENTIFICATION AND DISSEMINATION	100,000		
160	SPACE APPLICATIONS SRT	3,000		
181	TRAINING GRANTS	1,512,700		
182	FACILITIES GRANTS	3,042,029		
183	RESEARCH GRANTS	1,608,810		
185	PLANETARY EXPLORATION SRT SCIENCE	555,922		
186	PLANETARY EXPLORATION SRT AD TEC DV	53,507		
188	PHYSICS AND ASTRONOMY SRT	4,461,422		
189	BIOSCIENCE SRT	1,783,393		
190	MANNED SPACE SCIENCES SRT	164,175		
191	PLANETARY QUARANTINE	150,000		
385	DATA ANALYSIS	141,363		
601	TIROS/TOS IMPROVEMENTS	7,000		
607	METEOROLOGICAL SOUNDINGS	14,660		
630	APPLICATIONS TECHNOLOGY SATELLITES	704,420		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	215,779		

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WHOLE DOLLARS

UPN FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF MINNESOTA (CONTINUED)			
731	CHEMICAL ROCKET EXPER ENGINEERING	5,000		
811	PIONEER INTERN QUIET SUN YR	1,687,071		
815	VIKING	4,400		
821	ORBITING SOLAR OBSERVATORIES	634,335		
841	ORBITING GEOPHYSICAL OBSERVATORIES	1,270,100		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	65,684		
857	SMALL SCIENTIFIC SATELLITES (SSS)	56,000		
861	INTERPLANETARY EXPLORERS /IMP/	393,000		
866	MANNED SATELLITE SCIENCE	35,177		
879	SOUNDING ROCKETS	935,542		
883	BIOSATELLITES	1,613,223		
914	APOLLO SPACECRAFT	384,799		
923	GEMINI SUPPORT	40,480		
942	APOLLO APPLICATIONS DESIGN & DEV	95,416		
945	MSF EXPERIMENT DEFINITION	147,150		
949	APOLLO APPLICATIONS EXPERIMENT DEF	88,217	23,116,990	19,794,464
	UNIV OF MISSISSIPPI			
127	HUMAN FACTOR SYSTEMS SRT	64,158		
181	TRAINING GRANTS	262,800	326,958	254,341
	UNIV OF MONTANA			
181	TRAINING GRANTS	255,600	255,600	200,718

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF NEVADA-RENO			
160	SPACE APPLICATIONS SRT	133,865		
169	EARTH RESOURCES - SRT	108,650		
181	TRAINING GRANTS	244,600		
188	PHYSICS AND ASTRONOMY SRT	166,804		
189	BIOSCIENCE SRT	65,556		
190	MANNED SPACE SCIENCES SRT	131,188		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	78,470	929,133	748,933
	UNIV OF NEW MEXICO			
123	CHEMICAL AND SOLAR POWER SRT	80,349		
125	ELECTRONICS SYSTEMS SRT	52,785		
141	IDENTIFICATION AND DISSEMINATION	559,361		
181	TRAINING GRANTS	628,100		
183	RESEARCH GRANTS	450,000		
185	PLANETARY EXPLORATION SRT SCIENCE	412,768		
188	PHYSICS AND ASTRONOMY SRT	167,937		
821	ORBITING SOLAR OBSERVATORIES	1,151,709		
841	ORBITING GEOPHYSICAL OBSERVATORIES	654,000		
914	APOLLO SPACECRAFT	41,940	4,198,949	3,330,009
	UNIV OF NORTH DAKOTA			
124	SPACE VEHICLE SYSTEMS SRT	20,935		
181	TRAINING GRANTS	85,500		
311	NETWORK OPERATIONS-T&D ACQUISITION	38,470	144,905	100,023

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WHOLE DOLLARS

UPN FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS--- OBLIGATIONS	DISBURSMNTS
	UNIV OF NOTRE DAME			
125	ELECTRONICS SYSTEMS SRT	85,000		
128	CHEMICAL PROPULSION SRT	40,000		
129	RESEARCH PROGRAM SRT	396,364		
150	TRACKING & DATA ACQUISITION SRT	5,000		
181	TRAINING GRANTS	794,300		
189	BIOSCIENCE SRT	215,647		
385	DATA ANALYSIS	15,180		
861	INTERPLANETARY EXPLORERS /IMP/	2,300		
879	SOUNDING ROCKETS	59,858	1,613,649	1,159,387
	UNIV OF OKLAHOMA			
124	SPACE VEHICLE SYSTEMS SRT	34,605		
125	ELECTRONICS SYSTEMS SRT	29,856		
127	HUMAN FACTOR SYSTEMS SRT	54,660		
181	TRAINING GRANTS	861,600		
183	RESEARCH GRANTS	400,000		
188	PHYSICS AND ASTRONOMY SRT	10,000	1,390,721	1,122,011
	UNIV OF OREGON			
127	HUMAN FACTOR SYSTEMS SRT	181,135		
185	PLANETARY EXPLORATION SRT SCIENCE	135,000		
708	SMALL BIOTECHNOLOGY FLIGHTS/LIQUID	10,050		
914	APOLLO SPACECRAFT	409,667	735,852	514,847
	UNIV OF PENNSYLVANIA			
120	SPACE POWER AND ELECT PROP SYS SRT	201,600		
123	CHEMICAL AND SOLAR POWER SRT	1,687,021		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF PENNSYLVANIA (CONTINUED)			
125	ELECTRONICS SYSTEMS SRT	207,226		
126	AERONAUTICAL VEHICLES ART	17,160		
127	HUMAN FACTOR SYSTEMS SRT	95,550		
129	RESEARCH PROGRAM SRT	32,067		
143	ECONOMIC STUDIES	300,000		
150	TRACKING & DATA ACQUISITION SRT	77,856		
160	SPACE APPLICATIONS SRT	52,531		
181	TRAINING GRANTS	1,153,200		
183	RESEARCH GRANTS	850,000		
188	PHYSICS AND ASTRONOMY SRT	101,091		
189	BIOSCIENCE SRT	291,491		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	19,698		
883	BIOSATELLITES	318,730	5,405,221	4,511,523
	UNIV OF PITTSBURGH			
122	NUCLEAR ROCKETS PROPULSION SRT	63,038		
124	SPACE VEHICLE SYSTEMS SRT	18,829		
125	ELECTRONICS SYSTEMS SRT	84,852		
129	RESEARCH PROGRAM SRT	109,415		
141	IDENTIFICATION AND DISSEMINATION	1,258,275		
181	TRAINING GRANTS	1,362,700		
182	FACILITIES GRANTS	1,496,657		
183	RESEARCH GRANTS	1,958,000		
185	PLANETARY EXPLORATION SRT SCIENCE	773,545		
188	PHYSICS AND ASTRONOMY SRT	61,551		
189	BIOSCIENCE SRT	652,863		
195	LUNAR SCIENCE SRT	55,954		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	44,128		
841	ORBITING GEOPHYSICAL OBSERVATORIES	264,700		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF PITTSBURGH (CONTINUED)			
879	SOUNDING ROCKETS	799,415	9,003,922	7,470,742
	UNIV OF PUERTO RICO			
311	NETWORK OPERATIONS-T&D ACQUISITION	14,500		
855	GEODETIC SATELLITES	45,000	59,500	49,642
	UNIV OF REDLANDS			
000	MISCELLANEOUS RESEARCH	162,522	162,522	107,834
	UNIV OF RHODE ISLAND			
181	TRAINING GRANTS	349,400	349,400	292,500
	UNIV OF ROCHESTER			
124	SPACE VEHICLE SYSTEMS SRT	64,000		
125	ELECTRONICS SYSTEMS SRT	127,483		
126	AERONAUTICAL VEHICLES ART	2,488		
129	RESEARCH PROGRAM SRT	251,404		
181	TRAINING GRANTS	935,200		
182	FACILITIES GRANTS	1,000,000		
188	PHYSICS AND ASTRONOMY SRT	1,035,530		
189	BIOSCIENCE SRT	802,781		
194	ADV PLAN MISSIONS TECH APMT	40,000		
815	VIKING	13,693		
821	ORBITING SOLAR OBSERVATORIES	808,100		
831	ORBITING ASTRONOMICAL OBSERVATORIES	196,993		
879	SOUNDING ROCKETS	82,201	5,359,873	4,846,945

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF SANTA CLARA			
120	SPACE POWER AND ELECT PROP SYS SRT	8,464		
125	ELECTRONICS SYSTEMS SRT	100,404		
129	RESEARCH PROGRAM SRT	21,616	130,484	130,484
	UNIV OF SO CAROLINA			
125	ELECTRONICS SYSTEMS SRT	20,384		
181	TRAINING GRANTS	401,500		
185	PLANETARY EXPLORATION SRT SCIENCE	95,069		
189	BIOSCIENCE SRT	2,545	519,498	410,361
	UNIV OF SO FLORIDA			
000	MISCELLANEOUS RESEARCH	56,643		
125	ELECTRONICS SYSTEMS SRT	49,883		
127	HUMAN FACTOR SYSTEMS SRT	8,053		
129	RESEARCH PROGRAM SRT	12,800		
160	SPACE APPLICATIONS SRT	85,455	212,834	134,201
	UNIV OF SOUTH DAKOTA			
181	TRAINING GRANTS	190,600	190,600	138,547
	UNIV OF SOUTHERN CAL			
120	SPACE POWER AND ELECT PROP SYS SRT	39,962		
124	SPACE VEHICLE SYSTEMS SRT	35,341		
125	ELECTRONICS SYSTEMS SRT	435,459		
128	CHEMICAL PROPULSION SRT	37,924		
129	RESEARCH PROGRAM SRT	226,555		
141	IDENTIFICATION AND DISSEMINATION	957,108		

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF SOUTHERN CAL	(CONTINUED)		
160	SPACE APPLICATIONS SRT	39,539		
181	TRAINING GRANTS	1,341,537		
182	FACILITIES GRANTS	160,000		
183	RESEARCH GRANTS	1,200,000		
185	PLANETARY EXPLORATION SRT SCIENCE	273,900		
188	PHYSICS AND ASTRONOMY SRT	159,988		
189	BIOSCIENCE SRT	611,241		
708	SMALL BIOTECHNOLOGY FLIGHTS/LIQUID	7,000		
866	MANNED SATELLITE SCIENCE	42,774		
879	SOUNDING ROCKETS	28,747		
883	BIOSATELLITES	1,252,029		
911	MERCURY /FOR LIQUIDATION ONLY/	40,403		
914	APOLLO SPACECRAFT	8,004		
923	GEMINI SUPPORT	72,222		
945	MSF EXPERIMENT DEFINITION	193,000		
981	ADVANCED STUDIES-MANNED SPACE FLGT	2,583	7,165,316	4,908,411
	UNIV OF ST THOMAS			
124	SPACE VEHICLE SYSTEMS SRT	29,854		
883	BIOSATELLITES	171,172		
904	APOLLO SUPPORTING DEVELOPMENT	58,563	259,589	235,628
	UNIV OF TENNESSEE			
120	SPACE POWER AND ELECT PROP SYS SRT	114,000		
124	SPACE VEHICLE SYSTEMS SRT	24,971		
125	ELECTRONICS SYSTEMS SRT	313,621		
126	AERONAUTICAL VEHICLES ART	23,780		
129	RESEARCH PROGRAM SRT	487,863		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF TENNESSEE (CONTINUED)			
181	TRAINING GRANTS	840,400		
183	RESEARCH GRANTS	988,000		
185	PLANETARY EXPLORATION SRT SCIENCE	511,872		
188	PHYSICS AND ASTRONOMY SRT	157,426		
908	ADV MANNED MISSIONS SUPP DEVELOP	49,561		
933	SATURN V VEHICLE	124,398	3,635,892	2,826,886
	UNIV OF TOLEDO			
181	TRAINING GRANTS	252,400	252,400	209,383
	UNIV OF UTAH			
000	MISCELLANEOUS RESEARCH	11,950		
120	SPACE POWER AND ELECT PROP SYS SRT	24,546		
124	SPACE VEHICLE SYSTEMS SRT	32,058		
128	CHEMICAL PROPULSION SRT	472,492		
129	RESEARCH PROGRAM SRT	110,435		
181	TRAINING GRANTS	727,000		
189	BIOSCIENCE SRT	19,994		
320	SPECIAL SUPPORT	19,500		
607	METEOROLOGICAL SOUNDINGS	378,819		
684	ADVANCED STUDIES-LUNAR & PLANETARY	14,000		
923	GEMINI SUPPORT	20,013		
933	SATURN V VEHICLE	15,980	1,846,787	1,458,803
	UNIV OF VERMONT			
000	MISCELLANEOUS RESEARCH	9,876		
127	HUMAN FACTOR SYSTEMS SRT	24,458		
129	RESEARCH PROGRAM SRT	40,670		

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF VERMONT (CONTINUED)			
160	SPACE APPLICATIONS SRT	19,182		
181	TRAINING GRANTS	360,300		
183	RESEARCH GRANTS	750,000	1,204,486	889,264
	UNIV OF VIRGINIA			
000	MISCELLANEOUS RESEARCH	29,999		
120	SPACE POWER AND ELECT PROP SYS SRT	65,687		
123	CHEMICAL AND SOLAR POWER SRT	20,000		
124	SPACE VEHICLE SYSTEMS SRT	53,002		
125	ELECTRONICS SYSTEMS SRT	446,384		
126	AERONAUTICAL VEHICLES ART	462,405		
128	CHEMICAL PROPULSION SRT	47,000		
129	RESEARCH PROGRAM SRT	1,215,455		
181	TRAINING GRANTS	848,100		
183	RESEARCH GRANTS	625,000		
185	PLANETARY EXPLORATION SRT SCIENCE	283,342		
188	PHYSICS AND ASTRONOMY SRT	67,410		
189	BIOSCIENCE SRT	220,357		
190	MANNED SPACE SCIENCES SRT	13,681		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	32,799		
721	V/STOL AIRCRAFT TECHNOLOGY	24,788		
729	HYPERSONIC RESEARCH ENGINE	28,800		
731	CHEMICAL ROCKET EXPER ENGINEERING	30,000		
883	BIOSATELLITES	353,608		
981	ADVANCED STUDIES-MANNED SPACE FLGT	4,819	4,872,636	3,947,145

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV OF WASHINGTON			
124	SPACE VEHICLE SYSTEMS SRT	279,474		
126	AERONAUTICAL VEHICLES ART	25,710		
127	HUMAN FACTOR SYSTEMS SRT	26,268		
129	RESEARCH PROGRAM SRT	2,184,750		
160	SPACE APPLICATIONS SRT	36,600		
181	TRAINING GRANTS	804,500		
182	FACILITIES GRANTS	1,500,000		
183	RESEARCH GRANTS	348,000		
185	PLANETARY EXPLORATION SRT SCIENCE	51,900		
188	PHYSICS AND ASTRONOMY SRT	105,000		
721	V/STOL AIRCRAFT TECHNOLOGY	281,672		
815	VIKING	6,120		
883	BIOSATELLITES	26,932		
911	MERCURY /FOR LIQUIDATION ONLY/	15,270		
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	19,837	5,712,033	3,690,628
	UNIV OF WYOMING			
125	ELECTRONICS SYSTEMS SRT	19,921		
126	AERONAUTICAL VEHICLES ART	67,731		
127	HUMAN FACTOR SYSTEMS SRT	129,344		
129	RESEARCH PROGRAM SRT	14,981		
181	TRAINING GRANTS	181,700		
188	PHYSICS AND ASTRONOMY SRT	269,000	682,677	675,242
	UNIV SAN FRANCISCO			
127	HUMAN FACTOR SYSTEMS SRT	122,797		
129	RESEARCH PROGRAM SRT	26,590		
189	BIOSCIENCE SRT	9,946	159,333	90,758

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV SO MISSISSIPPI			
141	IDENTIFICATION AND DISSEMINATION	8,272		
181	TRAINING GRANTS	100,600	108,872	93,961
	UNIV TEX-ANDRSN HOSP			
904	APOLLO SUPPORTING DEVELOPMENT	190,000		
914	APOLLO SPACECRAFT	125,000	315,000	181,268
	UNIV TEX-BIOMED GRAD			
708	SMALL BIOTECHNOLOGY FLIGHTS/LIQUID	65,970		
749	APOLLO APPL EXPERIMENT DEFIN /ART/	41,000		
904	APOLLO SUPPORTING DEVELOPMENT	191,100	298,070	243,772
	UNIV TEX-DALLAS			
160	SPACE APPLICATIONS SRT	100,000		
183	RESEARCH GRANTS	3,449,110		
185	PLANETARY EXPLORATION SRT SCIENCE	2,105,750		
188	PHYSICS AND ASTRONOMY SRT	1,501,461		
385	DATA ANALYSIS	60,500		
811	PIONEER INTERN QUIET SUN YR	2,781,007		
841	ORBITING GEOPHYSICAL OBSERVATORIES	1,106,300		
861	INTERPLANETARY EXPLORERS /IMP/	745,046		
867	MANNED LUNAR SCIENCE	13,118		
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY	1,268,825		

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV TEX-DALLAS (CONTINUED)			
879	SOUNDING ROCKETS	1,956,462		
914	APOLLO SPACECRAFT	770,205		
942	APOLLO APPLICATIONS DESIGN & DEV	246,890	16,104,674	14,580,268
	UNIV TEX-DENTAL BRCH			
914	APOLLO SPACECRAFT	35,000	35,000	18,521
	UNIV TEXAS-ARLINGTON			
127	HUMAN FACTOR SYSTEMS SRT	11,467		
914	APOLLO SPACECRAFT	3,585	15,052	11,467
	UNIV TEXAS-AUSTIN			
101	SPACECRAFT TECHNOLOGY /LIQUIDATION/	19,936		
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	33,760		
124	SPACE VEHICLE SYSTEMS SRT	186,051		
125	ELECTRONICS SYSTEMS SRT	488,921		
126	AERONAUTICAL VEHICLES ART	89,916		
129	RESEARCH PROGRAM SRT	224,018		
150	TRACKING & DATA ACQUISITION SRT	230,000		
160	SPACE APPLICATIONS SRT	18,000		
164	COMMUNICATION AND NAVIGATION SRT	40,000		
181	TRAINING GRANTS	934,700		
185	PLANETARY EXPLORATION SRT SCIENCE	5,322,425		
186	PLANETARY EXPLORATION SRT AD TEC DV	24,116		
188	PHYSICS AND ASTRONOMY SRT	1,119,784		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV TEXAS-AUSTIN (CONTINUED)			
630	APPLICATIONS TECHNOLOGY SATELLITES	50,000		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	48,183		
903	GEMINI SUPPORTING DEVELOPMENT	50,000		
904	APOLLO SUPPORTING DEVELOPMENT	253,150		
905	APOLLO APPLICATIONS SUPPORTING DEV	47,990		
908	ADV MANNED MISSIONS SUPP DEVELOP	30,000		
914	APOLLO SPACECRAFT	108,685		
924	APOLLO SPACE OPERATIONS	150,856		
933	SATURN V VEHICLE	40,052		
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	48,541	9,559,084	8,402,545
	UNIV TEXAS-EL PASO			
160	SPACE APPLICATIONS SRT	30,000		
188	PHYSICS AND ASTRONOMY SRT	15,000		
190	MANNED SPACE SCIENCES SRT	17,130		
311	NETWORK OPERATIONS-T&D ACQUISITION	74,609		
607	METEOROLOGICAL SOUNDINGS	340,476		
879	SOUNDING ROCKETS	103,000	580,215	541,688
	UNIV TEXAS-GALVESTON			
914	APOLLO SPACECRAFT	167,906		
945	MSF EXPERIMENT DEFINITION	34,564	202,470	69,368

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UNIV TEXAS-SW MED SH			
189	BIOSCIENCE SRT	412,078		
883	BIOSATELLITES	635,475	1,047,553	899,958
	UNIV WISC-MADISON			
127	HUMAN FACTOR SYSTEMS SRT	183,203		
129	RESEARCH PROGRAM SRT	323,083		
160	SPACE APPLICATIONS SRT	739,991		
181	TRAINING GRANTS	1,150,700		
182	FACILITIES GRANTS	2,058,777		
183	RESEARCH GRANTS	3,995,000		
185	PLANETARY EXPLORATION SRT SCIENCE	74,225		
188	PHYSICS AND ASTRONOMY SRT	2,015,832		
189	BIOSCIENCE SRT	53,078		
195	LUNAR SCIENCE SRT	4,881		
601	TIROS/TOS IMPROVEMENTS	26,400		
603	METEOROLOGICAL FLIGHT EXPERIMENTS	874,450		
604	NIMBUS	233,000		
630	APPLICATIONS TECHNOLOGY SATELLITES	206,590		
685	ADV STUDIES-GEOPHYSICS & ASTRONOMY	3,658		
831	ORBITING ASTRONOMICAL OBSERVATORIES	4,955,572		
848	RETURNED LUNAR SAMPLE ANALYSIS	35,000		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	41,000		
861	INTERPLANETARY EXPLORERS /IMP/	318,000		
879	SOUNDING ROCKETS	238,000		
905	APOLLO APPLICATIONS SUPPORTING DEV	679,101		
914	APOLLO SPACECRAFT	139,726		
948	AAP EXPERIMENT DEVELOPMENT	10,715	18,359,982	15,632,417

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WHOLE DOLLARS

UPN FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	UTAH STATE UNIV			
125	ELECTRONICS SYSTEMS SRT	18,036		
181	TRAINING GRANTS	433,600		
189	BIOSCIENCE SRT	95,806	547,442	494,306
	VANDERBILT UNIV			
120	SPACE POWER AND ELECT PROP SYS SRT	13,651		
125	ELECTRONICS SYSTEMS SRT	112,666		
129	RESEARCH PROGRAM SRT	252,698		
181	TRAINING GRANTS	857,800		
185	PLANETARY EXPLORATION SRT SCIENCE	133,550		
931	SATURN I VEHICLE	25,875		
933	SATURN V VEHICLE	22,491	1,418,731	1,196,143
	VILLANOVA UNIV			
125	ELECTRONICS SYSTEMS SRT	58,192		
127	HUMAN FACTOR SYSTEMS SRT	47,287		
181	TRAINING GRANTS	38,200	143,679	113,993
	VIRGINIA COMNWLTH U			
127	HUMAN FACTOR SYSTEMS SRT	573,708		
911	MERCURY /FOR LIQUIDATION ONLY/	58,000	631,708	546,705
	VIRGINIA POLY INST			
124	SPACE VEHICLE SYSTEMS SRT	100,929		
125	ELECTRONICS SYSTEMS SRT	29,666		
127	HUMAN FACTOR SYSTEMS SRT	21,390		
128	CHEMICAL PROPULSION SRT	171,357		

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WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	VIRGINIA POLY INST (CONTINUED)			
129	RESEARCH PROGRAM SRT	543,838		
181	TRAINING GRANTS	925,800		
183	RESEARCH GRANTS	430,000		
189	BIOSCIENCE SRT	50,550		
933	SATURN V VEHICLE	72,000	2,345,530	1,926,025
	WASHINGTON ST UNIV			
000	MISCELLANEOUS RESEARCH	4,015		
181	TRAINING GRANTS	427,600		
189	BIOSCIENCE SRT	41,125		
933	SATURN V VEHICLE	142,042	614,782	470,422
	WASHINGTON STATE COL			
000	MISCELLANEOUS RESEARCH	25,000	25,000	25,000
	WASHINGTON UNIVERSTY			
126	AERONAUTICAL VEHICLES ART	76,418		
127	HUMAN FACTOR SYSTEMS SRT	16,144		
143	ECONOMIC STUDIES	450,000		
181	TRAINING GRANTS	960,500		
182	FACILITIES GRANTS	600,000		
183	RESEARCH GRANTS	1,650,000		
188	PHYSICS AND ASTRONOMY SRT	630,967		
190	MANNED SPACE SCIENCES SRT	40,000		
914	APOLLO SPACECRAFT	269,800		
945	MSF EXPERIMENT DEFINITION	120,741	4,814,570	4,094,301
	WAYNE STATE UNIV			
000	MISCELLANEOUS RESEARCH	10,760		
126	AERONAUTICAL VEHICLES ART	20,021		

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WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	WAYNE STATE UNIV (CONTINUED)			
129	RESEARCH PROGRAM SRT	43,808		
141	IDENTIFICATION AND DISSEMINATION	1,174,584		
143	ECONOMIC STUDIES	23,151		
181	TRAINING GRANTS	318,500	1,590,824	1,457,060
	WESLEYAN UNIVERSITY			
183	RESEARCH GRANTS	28,558		
185	PLANETARY EXPLORATION SRT SCIENCE	70,000		
188	PHYSICS AND ASTRONOMY SRT	5,835		
195	LUNAR SCIENCE SRT	30,700		
831	ORBITING ASTRONOMICAL OBSERVATORIES	8,300	143,393	36,395
	WEST VIRGINIA UNIV			
120	SPACE POWER AND ELECT PROP SYS SRT	1,000		
124	SPACE VEHICLE SYSTEMS SRT	46,882		
127	HUMAN FACTOR SYSTEMS SRT	155,344		
181	TRAINING GRANTS	808,000		
183	RESEARCH GRANTS	450,000		
721	V/STOL AIRCRAFT TECHNOLOGY	72,942		
831	ORBITING ASTRONOMICAL OBSERVATORIES	5,700	1,539,868	1,012,074
	WESTERN MICHIGAN U			
189	BIOSCIENCE SRT	26,389	26,389	10,000

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	INSTITUTION UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS-- OBLIGATIONS	DISBURSMNTS
	WESTERN STATE COL			
879	SOUNDING ROCKETS	95,831	95,831	82,158
	WICHITA STATE UNIV			
125	ELECTRONICS SYSTEMS SRT	20,820		
126	AERONAUTICAL VEHICLES ART	41,835		
129	RESEARCH PROGRAM SRT	31,612		
720	SUPERSONIC AIRCRAFT TECHNOLOGY	78,563	172,830	148,832
	WOODSHOLE OCEAN INST			
125	ELECTRONICS SYSTEMS SRT	450,000		
189	BIOSCIENCE SRT	158,000		
190	MANNED SPACE SCIENCES SRT	65,943	673,943	355,023
	WOODSTOCK COLLEGE			
183	RESEARCH GRANTS	30,000		
185	PLANETARY EXPLORATION SRT SCIENCE	7,000		
188	PHYSICS AND ASTRONOMY SRT	100,000	137,000	137,000
	WORCESTER POLY INST			
127	HUMAN FACTOR SYSTEMS SRT	118,611		
160	SPACE APPLICATIONS SRT	25,000		
181	TRAINING GRANTS	199,700	343,311	190,444
	XAVIER UNIVERSITY			
188	PHYSICS AND ASTRONOMY SRT	12,856	12,856	12,856

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN / FPN	INSTITUTION / UNIQUE PROJECT TITLE	OBLIGATIONS	---INSTITUTION TOTALS--- OBLIGATIONS	DISBURSMNTS
	YALE UNIVERSITY			
125	ELECTRONICS SYSTEMS SRT	277,724		
129	RESEARCH PROGRAM SRT	729,497		
150	TRACKING & DATA ACQUISITION SRT	173,586		
181	TRAINING GRANTS	1,240,700		
183	RESEARCH GRANTS	267,017		
185	PLANETARY EXPLORATION SRT SCIENCE	1,130,911		
188	PHYSICS AND ASTRONOMY SRT	864,896		
189	BIOSCIENCE SRT	963,069		
848	RETURNED LUNAR SAMPLE ANALYSIS	188,613		
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	100,320		
914	APOLLO SPACECRAFT	152,000		
942	APOLLO APPLICATIONS DESIGN & DEV	32,400	6,120,733	5,503,079
	YESHIVA UNIVERSITY			
127	HUMAN FACTOR SYSTEMS SRT	247,797		
181	TRAINING GRANTS	327,500		
183	RESEARCH GRANTS	345,249		
188	PHYSICS AND ASTRONOMY SRT	100,000		
945	MSF EXPERIMENT DEFINITION	117,677	1,138,223	769,934
	GRAND TOTALS		917,982,287	773,855,177

NASA - OBLIGATIONS TO EDUCATIONAL INSTITUTIONS

BY FUNDING ORGANIZATIONAL ELEMENT AND INSTITUTION

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - MISC VARIOUS OFFICES - MISC		
ARDOSTOOK STATE C	26,000	
BALL STATE UNIV	20,450	
BOSTON UNIVERSITY	1,824	
CAL ST COL-LNG BEACH	10,361	
COLLEGE OF WOOSTER	3,613	
COLUMBIA UNIVERSITY	62,305	
CORNELL UNIVERSITY	26,120	
DUKE UNIVERSITY	45,631	
FARMINGTON STATE TCH	40,000	
FLORIDA STATE UNIV	58,331	
GEORGE WASHINGTON U	6,000	
GORHAM ST TEACHERS C	40,000	
INDIANA UNIVERSITY	25,899	
MONTANA STATE UNIV	25,542	
NORTHWESTERN UNIV	112,000	
OHIO STATE UNIV	41,759	
OREGON STATE UNIV	16,050	
PRATT INSTITUTE	7,757	
SUNY-BUFFALO	151,320	
SYRACUSE UNIVERSITY	123,500	
TEXAS A&M UNIVERSITY	39,866	
UNIV CALIF-BERKELEY	420,012	
UNIV CALIF-L ANGELES	110,000	
UNIV MO-KANSAS CITY	255,509	
UNIV N CAR-CHPL HILL	167,734	
UNIV OF ARIZONA	56,120	
UNIV OF BRIDGEPORT	5,185	
UNIV OF COLORADO	29,374	
UNIV OF DELAWARE	11,660	
UNIV OF FLORIDA	40,000	
UNIV OF MIAMI	20,057	
UNIV OF MICHIGAN	256,955	
UNIV OF MINNESOTA	22,297	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - MISC VARIOUS OFFICES - MISC (CONTINUED)		
UNIV OF REDLANDS	162,522	
UNIV OF SO FLORIDA	56,643	
UNIV OF UTAH	11,950	
UNIV OF VERMONT	9,876	
UNIV OF VIRGINIA	15,000	
WASHINGTON ST UNIV	4,015	
WASHINGTON STATE COL	25,000	
WAYNE STATE UNIV	10,760	2,574,997
HQ - OTU TECHNOLOGY UTILIZATN - OTU		
BOSTON UNIVERSITY	49,763	
GEORGE WASHINGTON U	1,311,015	
INDIANA UNIVERSITY	1,726,739	
MASS INST OF TECH	474,240	
NORTHWESTERN UNIV	213,529	
OKLAHOMA STATE UNIV	260,099	
SOUTHEASTERN ST COL	500,764	
STANFORD UNIVERSITY	17,000	
SYRACUSE UNIVERSITY	5,655	
UNIV CALIF-BERKELEY	987,960	
UNIV CALIF-L ANGELES	119,013	
UNIV MO-COLUMBIA	175,926	
UNIV OF CHICAGO	92,000	
UNIV OF COLORADO	117,562	
UNIV OF CONNECTICUT	629,648	
UNIV OF DENVER	798,354	
UNIV OF GEORGIA	303,845	
UNIV OF MIAMI	81,432	
UNIV OF MINNESOTA	100,000	
UNIV OF NEW MEXICO	559,361	
UNIV OF PENNSYLVANIA	300,000	
UNIV OF PITTSBURGH	1,258,275	
UNIV OF SOUTHERN CAL	957,108	
WASHINGTON UNIVERSTY	450,000	
WAYNE STATE UNIV	1,197,735	12,687,023

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OUA UNIVERSITY AFFAIRS - OUA		
ADELPHI UNIVERSITY	782,242	
ALABAMA A&M COLLEGE	36,506	
ALFRED UNIVERSITY	97,200	
ARIZONA STATE UNIV	530,400	
AUBURN UNIVERSITY	1,328,232	
BAYLOR UNIVERSITY	53,000	
BOSTON COLLEGE	224,400	
BOSTON UNIVERSITY	389,400	
BRANDEIS UNIVERSITY	399,900	
BRIGHAM YOUNG UNIV	210,400	
BROWN UNIVERSITY	1,191,600	
CALIF INST OF TECH	2,670,947	
CARNEGIE MELLON UNIV	1,185,800	
CASE WESTERN RESERVE	4,515,839	
CATHOLIC UNIVERSITY	1,091,623	
CITY COLLEGE OF N Y	167,704	
CLARK UNIVERSITY	166,100	
CLARKSON COL OF TECH	269,100	
CLEMSON UNIVERSITY	469,800	
COLLEGE OF WM & MARY	1,013,275	
COLORADO SCH OF MINE	440,000	
COLORADO STATE UNIV	845,755	
COLUMBIA UNIVERSITY	2,627,050	
CORNELL UNIVERSITY	3,142,352	
CUNY-GRADUATE CENTER	391,000	
DARTMOUTH COLLEGE	411,500	
DREXEL INST OF TECH	849,200	
DUKE UNIVERSITY	1,293,400	
DUQUESNE UNIVERSITY	100,700	
EMORY UNIVERSITY	211,400	
FLORIDA STATE UNIV	681,700	
FORDHAM UNIVERSITY	230,100	
GEORGE WASHINGTON U	1,873,900	
GEORGETOWN UNIV	460,200	
GEORGIA INST OF TECH	4,396,648	
HAMPTON INSTITUTE	11,125	
HARVARD UNIVERSITY	276,000	
HOWARD UNIVERSITY	492,300	
ILL INST OF TECH	990,400	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OUA UNIVERSITY AFFAIRS - OUA (CONTINUED)		
INDIANA UNIVERSITY	977,324	
IOWA STATE UNIV	1,080,900	
JOHNS HOPKINS UNIV	918,800	
KANSAS STATE UNIV	1,060,700	
KENT STATE UNIV	287,900	
LA ST U-BATON ROUGE	1,122,824	
LEHIGH UNIVERSITY	792,400	
LOWELL TECH INST	61,200	
MARQUETTE UNIVERSITY	53,100	
MASS INST OF TECH	10,803,008	
MIAMI UNIVERSITY	42,210	
MICHIGAN STATE UNIV	932,186	
MICHIGAN TECH UNIV	94,500	
MISSISSIPPI STATE U	433,300	
MONTANA STATE UNIV	924,700	
MORGAN STATE COLLEGE	8,400	
NEW MEXICO STATE U	1,067,900	
NEW YORK UNIVERSITY	2,977,371	
NO CAROLINA STATE U	926,000	
NO DAKOTA STATE UNIV	179,600	
NORTHEASTERN UNIV	446,481	
NORTHWESTERN UNIV	1,352,800	
OHIO STATE UNIV	954,500	
OHIO UNIVERSITY	192,600	
OKLAHOMA STATE UNIV	1,160,500	
OLD DOMINION COLLEGE	415,566	
OREGON STATE UNIV	778,500	
PENNSYLVANIA STATE U	2,527,271	
POLY INST BROOKLYN	1,866,200	
PRAIRIE VIEW A&M COL	12,890	
PRINCETON UNIVERSITY	1,425,944	
PURDUE UNIVERSITY	3,903,620	
RENSSELAER POLY INST	3,189,800	
RICE UNIVERSITY	3,936,700	
RUTGERS-THE STATE U	650,754	
SO DAKOTA SCHL MINES	100,000	
SOUTHERN ILLINOIS U	93,000	
SOUTHERN METHODIST U	870,000	
ST LOUIS UNIVERSITY	757,800	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OUA UNIVERSITY AFFAIRS - OUA (CONTINUED)		
STANFORD UNIVERSITY	5,667,058	
STEVENS INST OF TECH	566,500	
SUNY-BUFFALO	177,000	
SUNY-STONY BROOK	407,917	
SYRACUSE UNIVERSITY	1,788,900	
TEMPLE UNIVERSITY	185,800	
TEXAS A&M UNIVERSITY	3,129,600	
TEXAS CHRISTIAN UNIV	277,800	
TEXAS TECH COLLEGE	538,700	
TUFTS UNIVERSITY	231,700	
TULANE UNIVERSITY	824,800	
TUSKEGEE INSTITUTE	23,750	
UNIV ALA-TUSCALOOSA	3,660,203	
UNIV CALIF-BERKELEY	6,013,575	
UNIV CALIF-L ANGELES	6,971,591	
UNIV CALIF-RIVERSIDE	228,100	
UNIV CALIF-S BARBARA	218,966	
UNIV CALIF-SAN DIEGO	626,700	
UNIV ILLINOIS-URBANA	2,392,300	
UNIV MO-COLUMBIA	1,516,400	
UNIV MO-ROLLA	473,700	
UNIV N CAR-CHPL HILL	1,403,600	
UNIV NEBRASKA-LINCLN	382,800	
UNIV NEW HAMPSHIRE	353,000	
UNIV OF ALASKA	199,600	
UNIV OF ARIZONA	2,674,277	
UNIV OF ARKANSAS	742,600	
UNIV OF CHICAGO	3,372,639	
UNIV OF CINCINNATI	1,223,800	
UNIV OF COLORADO	1,741,400	
UNIV OF CONNECTICUT	629,600	
UNIV OF DELAWARE	584,400	
UNIV OF DENVER	2,354,473	
UNIV OF FLORIDA	3,875,300	
UNIV OF GEORGIA	652,800	
UNIV OF HAWAII	229,800	
UNIV OF HOUSTON	2,019,999	
UNIV OF IDAHO	177,900	
UNIV OF IOWA	1,779,480	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION		INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OUA	UNIVERSITY AFFAIRS - OUA (CONTINUED)		
	UNIV OF KANSAS	3,802,700	
	UNIV OF KENTUCKY	537,600	
	UNIV OF LOUISVILLE	568,742	
	UNIV OF MAINE-ORONO	732,050	
	UNIV OF MARYLAND	5,137,704	
	UNIV OF MASSACHUSETT	293,100	
	UNIV OF MIAMI	1,986,587	
	UNIV OF MICHIGAN	2,850,600	
	UNIV OF MINNESOTA	6,163,539	
	UNIV OF MISSISSIPPI	262,800	
	UNIV OF MONTANA	255,600	
	UNIV OF NEVADA-RENO	244,600	
	UNIV OF NEW MEXICO	1,078,100	
	UNIV OF NORTH DAKOTA	85,500	
	UNIV OF NOTRE DAME	794,300	
	UNIV OF OKLAHOMA	1,261,600	
	UNIV OF PENNSYLVANIA	2,003,200	
	UNIV OF PITTSBURGH	4,817,357	
	UNIV OF RHODE ISLAND	349,400	
	UNIV OF ROCHESTER	1,935,200	
	UNIV OF SO CAROLINA	401,500	
	UNIV OF SOUTH DAKOTA	190,600	
	UNIV OF SOUTHERN CAL	2,701,537	
	UNIV OF TENNESSEE	1,828,400	
	UNIV OF TOLEDO	252,400	
	UNIV OF UTAH	727,000	
	UNIV OF VERMONT	1,110,300	
	UNIV OF VIRGINIA	1,473,100	
	UNIV OF WASHINGTON	2,652,500	
	UNIV OF WYOMING	181,700	
	UNIV SO MISSISSIPPI	100,600	
	UNIV TEX-DALLAS	3,449,110	
	UNIV TEXAS-AUSTIN	934,700	
	UNIV WISC-MADISON	7,204,477	
	UTAH STATE UNIV	433,600	
	VANDERBILT UNIV	857,800	
	VILLANOVA UNIV	38,200	
	VIRGINIA POLY INST	1,355,800	
	WASHINGTON ST UNIV	427,600	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OUA UNIVERSITY AFFAIRS - OUA (CONTINUED)		
WASHINGTON UNIVERSTY	3,219,500	
WAYNE STATE UNIV	318,500	
WESLEYAN UNIVERSITY	28,558	
WEST VIRGINIA UNIV	1,258,000	
WOODSTOCK COLLEGE	30,000	
WORCESTER POLY INST	199,700	
YALE UNIVERSITY	1,507,717	
YESHIVA UNIVERSITY	597,749	214,847,902
HQ - OT&DA TRACKING & DATA ACQ - OT&DA		
MASS INST OF TECH	360,000	
RENSSELAER POLY INST	2,453	
UNIV TEXAS-AUSTIN	230,000	592,453
HQ - OART SPACE PWR ELECT PROP - RN		
CATHOLIC UNIVERSITY	245,406	
COLORADO STATE UNIV	249,641	
PRINCETON UNIVERSITY	1,163,912	
RENSSELAER POLY INST	39,200	
UNIV CALIF-SAN DIEGO	314,117	
UNIV ILLINOIS-URBANA	26,802	
UNIV OF CONNECTICUT	56,920	
UNIV OF MARYLAND	180,180	
UNIV OF MICHIGAN	72,254	
UNIV OF PENNSYLVANIA	1,600	
UNIV OF UTAH	24,546	2,374,578
HQ - OART AFC NASA NUCLR PROP - NPO		
CASE WESTERN RESERVE	308,717	
CATHOLIC UNIVERSITY	287,120	
ILL INST OF TECH	591,516	
MASS INST OF TECH	40,558	
PRINCETON UNIVERSITY	248,000	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OART AEC NASA NUCLR PROP - NPO (CONTINUED)		
RENSSELAER POLY INST	93,000	
UNIV OF ARIZONA	285,032	
UNIV OF MARYLAND	55,408	
UNIV OF MIAMI	143,170	2,052,521
HQ - OART CHEMICAL PROPULSION - RP		
CALIF INST OF TECH	623,213	
CASE WESTERN RESERVE	49,945	
ILL INST OF TECH	382,534	
IOWA STATE UNIV	200,257	
MASS INST OF TECH	214,992	
NEW YORK UNIVERSITY	309,296	
PENNSYLVANIA STATE U	239,562	
PRINCETON UNIVERSITY	871,791	
PURDUE UNIVERSITY	509,684	
RENSSELAER POLY INST	8,200	
STANFORD UNIVERSITY	85,330	
STEVENS INST OF TECH	139,462	
UNIV CALIF-BERKELEY	69,933	
UNIV ILLINOIS-URBANA	42,000	
UNIV OF DENVER	151,754	
UNIV OF FLORIDA	102,499	
UNIV OF MIAMI	12,021	
UNIV OF MICHIGAN	529,825	
UNIV OF NEW MEXICO	80,349	
UNIV OF NOTRE DAME	40,000	
UNIV OF PENNSYLVANIA	1,687,021	
UNIV OF SOUTHERN CAL	37,924	
UNIV OF UTAH	472,492	6,860,084
HQ - OART SPACE VEHICLES - RV		
CALIF INST OF TECH	363,941	
CASE WESTERN RESERVE	332,136	
CATHOLIC UNIVERSITY	208,079	
DREXEL INST OF TECH	109,686	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING.ORG SUB-TOTALS
HQ - OART SPACE VEHICLES - RV	(CONTINUED)	
HARVARD UNIVERSITY	791,823	
MASS INST OF TECH	25,152	
NEW YORK UNIVERSITY	201,327	
NORTHWESTERN UNIV	181,388	
OHIO STATE UNIV	117,159	
OKLAHOMA STATE UNIV	64,124	
POLY INST BROOKLYN	36,255	
PRINCETON UNIVERSITY	116,810	
PURDUE UNIVERSITY	250,327	
SOUTHERN ILLINOIS U	163,592	
SOUTHERN METHODIST U	44,224	
UNIV CALIF-BERKELEY	133,062	
UNIV CALIF-L ANGELES	351,400	
UNIV ILLINOIS-URBANA	129,431	
UNIV OF FLORIDA	43,900	
UNIV OF KENTUCKY	42,477	
UNIV OF MICHIGAN	18,375	
UNIV OF NORTH DAKOTA	20,935	
UNIV OF WASHINGTON	176,594	3,913,197
HQ - OART ELECTRONICS & CONTRL - RE		
AMERICAN UNIVERSITY	5,960	
ARIZONA STATE UNIV	15,164	
BROWN UNIVERSITY	107,835	
CASE WESTERN RESERVE	245,159	
CLEMSON UNIVERSITY	42,870	
GEORGE WASHINGTON U	19,950	
GEORGIA INST OF TECH	151,201	
HAHNEMANN MED COL	9,606	
MASS INST OF TECH	3,404,901	
NEW YORK UNIVERSITY	76,461	
NORTHEASTERN UNIV	49,980	
OHIO STATE UNIV	284,390	
PENNSYLVANIA STATE U	263,296	
PRINCETON UNIVERSITY	50,000	
PURDUE UNIVERSITY	337,998	
RENSSELAER POLY INST	170,774	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OART ELECTRONICS & CONTRL - RE	(CONTINUED)	
STANFORD UNIVERSITY	1,342,825	
UNIV CALIF-BERKELEY	437,670	
UNIV CALIF-SAN DIEGO	31,169	
UNIV ILLINOIS-URBANA	48,618	
UNIV OF ARIZONA	126,664	
UNIV OF ARKANSAS	267,112	
UNIV OF CINCINNATI	428,810	
UNIV OF CONNECTICUT	243,890	
UNIV OF KANSAS	33,277	
UNIV OF MARYLAND	150,000	
UNIV OF MICHIGAN	928,614	
UNIV OF MINNESOTA	20,315	
UNIV OF PENNSYLVANIA	121,831	
UNIV OF ROCHESTER	36,706	
UNIV OF SO CAROLINA	20,384	
UNIV OF SOUTHERN CAL	281,065	
UNIV OF TENNESSEE	99,000	
UNIV TEXAS-AUSTIN	189,318	10,042,813
HQ - OART AERONAUTICS - RA		
GEORGIA INST OF TECH	16,952	
LEHIGH UNIVERSITY	124,737	
MASS INST OF TECH	50,844	
PRINCETON UNIVERSITY	49,965	
PURDUE UNIVERSITY	125,685	
RUTGERS-THE STATE U	39,578	
SYRACUSE UNIVERSITY	148,494	
UNIV CALIF-BERKELEY	20,700	
UNIV OF MICHIGAN	116,026	
WEST VIRGINIA UNIV	72,942	765,923
HQ - OART BIOTECH & HUMAN RSCH - RB		
ALABAMA A&M COLLEGE	53,738	
BROWN UNIVERSITY	5,000	
COLUMBIA UNIVERSITY	98,639	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OART BIOTECH & HUMAN RSCH - RB	(CONTINUED)	
EMORY UNIVERSITY	67,710	
GEORGETOWN UNIV	179,428	
HAHNEMANN MED COL	9,605	
HARVARD UNIVERSITY	549,629	
INDIANA UNIVERSITY	30,000	
MASS INST OF TECH	372,032	
TULANE UNIVERSITY	52,754	
UNIV ALA-BIRMINGHAM	15,000	
UNIV CALIF-BERKELEY	1,477,805	
UNIV CALIF-DAVIS	37,273	
UNIV CALIF-L ANGELES	69,190	
UNIV ILLINOIS-URBANA	1,206,270	
UNIV OF DENVER	19,412	
UNIV OF FLORIDA	32,275	
UNIV OF MARYLAND	880,744	
UNIV OF MINNESOTA	465,280	
UNIV OF OKLAHOMA	54,660	
UNIV OF PENNSYLVANIA	12,550	
UNIV OF SO FLORIDA	8,053	
UNIV OF WASHINGTON	26,268	
UNIV TEXAS-ARLINGTON	11,467	
VIRGINIA COMNWLTH U	92,432	
WEST VIRGINIA UNIV	55,344	5,882,558
HQ - OART RESEARCH - RR		
ARIZONA STATE UNIV	19,538	
BRANDEIS UNIVERSITY	38,420	
BROWN UNIVERSITY	205,557	
CALIF INST OF TECH	766,950	
CARNEGIE MELLON UNIV	267,242	
CASE WESTERN RESERVE	1,713,710	
CATHOLIC UNIVERSITY	138,561	
CITY COLLEGE OF N Y	117,610	
CLARKSON COL OF TECH	42,990	
COLLEGE OF WM & MARY	475,000	
COLORADO STATE UNIV	13,327	
COLUMBIA UNIVERSITY	539,908	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OART RESEARCH - RR (CONTINUED)		
CORNELL UNIVERSITY	536,661	
DREXEL INST OF TECH	112,000	
EMORY UNIVERSITY	50,515	
FLORIDA STATE UNIV	167,812	
GEORGIA INST OF TECH	320,540	
HARVARD UNIVERSITY	90,000	
ILL INST OF TECH	19,512	
INDIANA UNIVERSITY	29,342	
IOWA STATE UNIV	36,361	
JOHNS HOPKINS UNIV	245,000	
KENT STATE UNIV	82,012	
LA ST U-BATON ROUGE	17,831	
LEHIGH UNIVERSITY	215,469	
MASS INST OF TECH	3,375,927	
MICHIGAN STATE UNIV	39,020	
NEW MEXICO STATE U	122,047	
NEW YORK UNIVERSITY	1,005,277	
NO CAROLINA STATE U	247,871	
NORTHWESTERN UNIV	244,897	
OHIO STATE UNIV	358,882	
OKLAHOMA STATE UNIV	40,260	
PENNSYLVANIA STATE U	123,312	
POLY INST BROOKLYN	553,787	
PRINCETON UNIVERSITY	286,961	
PURDUE UNIVERSITY	23,252	
RENSSELAER POLY INST	3,353,799	
RICE UNIVERSITY	2,950,000	
SETON HALL UNIV	27,423	
SOUTHERN ILLINOIS U	17,558	
SOUTHERN METHODIST U	19,000	
SOUTHERN UNIVERSITY	10,558	
ST LOUIS UNIVERSITY	9,917	
STANFORD UNIVERSITY	2,076,295	
STEVENS INST OF TECH	272,650	
SUNY-STONY BROOK	159,159	
SYRACUSE UNIVERSITY	351,034	
TULANE UNIVERSITY	34,000	
UNIV CALIF-BERKELEY	681,015	
UNIV CALIF-DAVIS	28,500	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OART RESEARCH - RR	(CONTINUED)	
UNIV CALIF-S BARBARA	56,434	
UNIV CALIF-SAN DIEGO	126,237	
UNIV ILLINOIS-CHICGO	30,000	
UNIV ILLINOIS-URBANA	325,346	
UNIV MO-ROLLA	34,696	
UNIV OF ARIZONA	62,962	
UNIV OF CHICAGO	550,000	
UNIV OF COLORADO	94,223	
UNIV OF DELAWARE	115,102	
UNIV OF DENVER	202,688	
UNIV OF FLORIDA	474,010	
UNIV OF HOUSTON	20,196	
UNIV OF IOWA	44,168	
UNIV OF KENTUCKY	117,247	
UNIV OF MARYLAND	322,104	
UNIV OF MASSACHUSETT	17,657	
UNIV OF MIAMI	73,700	
UNIV OF MICHIGAN	1,135,104	
UNIV OF MINNESOTA	163,104	
UNIV OF NOTRE DAME	351,364	
UNIV OF PENNSYLVANIA	32,067	
UNIV OF PITTSBURGH	109,415	
UNIV OF ROCHESTER	251,404	
UNIV OF SO FLORIDA	12,800	
UNIV OF SOUTHERN CAL	192,669	
UNIV OF TENNESSEE	295,689	
UNIV OF UTAH	112,565	
UNIV OF VERMONT	40,670	
UNIV OF VIRGINIA	652,591	
UNIV OF WASHINGTON	2,184,750	
UNIV OF WYOMING	14,981	
UNIV TEXAS-AUSTIN	224,018	
UNIV WISC-MADISON	283,123	
VIRGINIA POLY INST	361,000	
WAYNE STATE UNIV	43,808	
WICHITA STATE UNIV	31,612	
YALE UNIVERSITY	598,910	32,432,683

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A APOLLO LUNAR PROGRAM - MAL		
ARIZONA STATE UNIV	17,000	
CALIF INST OF TECH	115,855	
COLLEGE VIRGIN ISLND	59,200	
HARVARD UNIVERSITY	30,313	
MASS INST OF TECH	198,050	
OREGON STATE UNIV	40,000	
STANFORD UNIVERSITY	85,026	
UNIV CALIF-L ANGELES	68,000	
UNIV CALIF-S BARBARA	25,000	
UNIV CALIF-SAN DIEGO	261,000	
UNIV OF ARIZONA	190,000	
UNIV OF CHICAGO	106,202	
UNIV OF MARYLAND	84,000	
UNIV OF PITTSBURGH	55,954	
UNIV WISC-MADISON	4,881	
WESLEYAN UNIVERSITY	30,700	1,371,181
HQ - OSS&A LAUNCH VEHICLES - SV		
PRINCETON UNIVERSITY	598,685	
PURDUE UNIVERSITY	100,000	
UNIV OF DENVER	240	
UNIV OF MIAMI	28,091	727,016
HQ - OSS&A PLANETARY PROGRAMS - SL		
ARIZONA STATE UNIV	112,018	
BOSTON UNIVERSITY	24,480	
BRIGHAM YOUNG UNIV	68,571	
BROWN UNIVERSITY	12,138	
CALIF INST OF TECH	3,714,554	
CARNEGIE MELLON UNIV	96,983	
COLLEGE VIRGIN ISLND	73,420	
COLUMBIA UNIVERSITY	520,000	
CORNELL UNIVERSITY	827,018	
FLORIDA STATE UNIV	467,537	
GEORGETOWN UNIV	130,558	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A PLANETARY PROGRAMS - SL	(CONTINUED)	
GEORGIA INST OF TECH	306,000	
HARVARD UNIVERSITY	1,049,215	
HOWARD UNIVERSITY	13,000	
KANSAS STATE UNIV	69,254	
MASS INST OF TECH	3,323,923	
NEW MEXICO STATE U	1,062,304	
NEW YORK UNIVERSITY	55,434	
NORTHWESTERN UNIV	550,476	
OHIO STATE UNIV	396,702	
OREGON STATE UNIV	62,140	
PENNSYLVANIA STATE U	97,563	
PRINCETON UNIVERSITY	149,800	
PURDUE UNIVERSITY	122,527	
RENSSELAER POLY INST	1,143,400	
RICE UNIVERSITY	212,563	
STANFORD UNIVERSITY	1,342,233	
TEXAS A&M UNIVERSITY	264,773	
UNIV CALIF-BERKELEY	2,147,584	
UNIV CALIF-L ANGELES	1,653,352	
UNIV CALIF-S BARBARA	22,435	
UNIV CALIF-SAN DIEGO	1,587,807	
UNIV ILLINOIS-URBANA	306,335	
UNIV OF ARIZONA	2,990,139	
UNIV OF CHICAGO	1,636,265	
UNIV OF COLORADO	1,305,812	
UNIV OF FLORIDA	164,200	
UNIV OF HAWAII	3,856,164	
UNIV OF HOUSTON	141,877	
UNIV OF KANSAS	56,370	
UNIV OF MARYLAND	1,149,201	
UNIV OF MASSACHUSETT	51,932	
UNIV OF MIAMI	199,260	
UNIV OF MICHIGAN	615,681	
UNIV OF MINNESOTA	613,829	
UNIV OF NEW MEXICO	412,768	
UNIV OF OREGON	70,000	
UNIV OF PITTSBURGH	773,545	
UNIV OF ROCHESTER	53,693	
UNIV OF SO CAROLINA	95,069	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A PLANETARY PROGRAMS - SL	(CONTINUED)	
UNIV OF SOUTHERN CAL	273,900	
UNIV OF TENNESSEE	511,872	
UNIV OF VIRGINIA	283,342	
UNIV OF WASHINGTON	58,020	
UNIV TEX-DALLAS	2,134,488	
UNIV TEXAS-AUSTIN	5,310,325	
UNIV WISC-MADISON	74,225	
VANDERBILT UNIV	133,550	
WESLEYAN UNIVERSITY	70,000	
YALE UNIVERSITY	1,130,911	46,152,335
HQ - OSS&A PHYSICS & ASTRONOMY - SG		
ADELPHI UNIVERSITY	16,270	
BRIGHAM YOUNG UNIV	25,000	
CALIF INST OF TECH	3,624,614	
CASE WESTERN RESERVE	148,000	
CATHOLIC UNIVERSITY	318,269	
COLUMBIA UNIVERSITY	205,000	
CORNELL UNIVERSITY	1,344,191	
DARTMOUTH COLLEGE	140,538	
GEORGIA INST OF TECH	385,887	
HARVARD UNIVERSITY	5,561,164	
HAVERFORD COLLEGE	204,366	
INDIANA UNIVERSITY	268,791	
JOHNS HOPKINS UNIV	2,160,338	
LA ST U-BATON ROUGE	619,543	
MASS INST OF TECH	6,674,148	
MONTANA STATE UNIV	22,600	
NEW YORK UNIVERSITY	75,500	
NO CAROLINA STATE U	92,117	
NORTHWESTERN UNIV	221,032	
PENNSYLVANIA STATE U	1,859,326	
POLY INST BROOKLYN	34,914	
PRINCETON UNIVERSITY	4,333,822	
PURDUE UNIVERSITY	455,068	
RENSSELAER POLY INST	614,882	
RICE UNIVERSITY	1,758,506	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A PHYSICS & ASTRONOMY - SG (CONTINUED)		
RUTGERS-THE STATE U	47,740	
STANFORD UNIVERSITY	4,778,781	
STEVENS INST OF TECH	27,963	
SUNY-STONY BROOK	203,448	
TEMPLE UNIVERSITY	100,000	
TEXAS TECH COLLEGE	24,474	
UNIV CALIF-BERKELEY	4,842,445	
UNIV CALIF-L ANGELES	1,394,571	
UNIV CALIF-RIVERSIDE	50,000	
UNIV CALIF-S BARBARA	284,922	
UNIV CALIF-S CRUZ	159,997	
UNIV CALIF-SAN DIEGO	2,998,843	
UNIV ILLINOIS-URBANA	3,244,179	
UNIV N CAR-CHPL HILL	135,504	
UNIV NEW HAMPSHIRE	1,881,699	
UNIV OF ALASKA	991,091	
UNIV OF ARIZONA	2,641,321	
UNIV OF CHICAGO	5,220,542	
UNIV OF CINCINNATI	178,000	
UNIV OF COLORADO	1,512,484	
UNIV OF DENVER	69,000	
UNIV OF FLORIDA	321,818	
UNIV OF GEORGIA	40,000	
UNIV OF HAWAII	3,519,925	
UNIV OF HOUSTON	12,375	
UNIV OF IOWA	3,649,002	
UNIV OF KANSAS	507,217	
UNIV OF MARYLAND	2,441,959	
UNIV OF MASSACHUSETT	294,381	
UNIV OF MIAMI	62,257	
UNIV OF MICHIGAN	5,285,688	
UNIV OF MINNESOTA	5,538,327	
UNIV OF NEVADA-RENO	166,804	
UNIV OF NEW MEXICO	403,435	
UNIV OF NOTRE DAME	15,180	
UNIV OF OKLAHOMA	10,000	
UNIV OF PENNSYLVANIA	101,091	
UNIV OF PITTSBURGH	806,565	
UNIV OF ROCHESTER	1,010,193	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A PHYSICS & ASTRONOMY - SG	(CONTINUED)	
UNIV OF SOUTHERN CAL	231,509	
UNIV OF TENNESSEE	157,426	
UNIV OF VIRGINIA	67,410	
UNIV OF WASHINGTON	105,000	
UNIV OF WYOMING	6,000	
UNIV TEX-DALLAS	3,518,423	
UNIV TEXAS-AUSTIN	1,119,784	
UNIV WISC-MADISON	2,422,910	
WASHINGTON UNIVERSTY	630,967	
WESLEYAN UNIVERSITY	14,135	
WESTERN STATE COL	95,831	
WOODSTOCK COLLEGE	100,000	
XAVIER UNIVERSITY	12,856	
YALE UNIVERSITY	744,898	
YESHIVA UNIVERSITY	3,000	95,367,256
HQ - OSS&A MANNED FLT EXPERMNTS - SS		
CALIF INST OF TECH	671,394	
COLUMBIA UNIVERSITY	216,566	
HARVARD UNIVERSITY	50,340	
MASS INST OF TECH	619,420	
NORTHWESTERN UNIV	125,244	
OHIO STATE UNIV	180,382	
OREGON STATE UNIV	49,014	
RICE UNIVERSITY	20,290	
STANFORD UNIVERSITY	190,000	
UNIV CALIF-BERKELEY	1,165,587	
UNIV CALIF-L ANGELES	512,562	
UNIV CALIF-SAN DIEGO	664,605	
UNIV OF ARIZONA	88,563	
UNIV OF CHICAGO	62,073	
UNIV OF HOUSTON	109,600	
UNIV OF KENTUCKY	30,000	
UNIV OF MARYLAND	100,046	
UNIV OF MIAMI	50,000	
UNIV OF MICHIGAN	290,314	
UNIV OF MINNESOTA	229,859	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A MANNED FLT EXPERMNTS - SS (CONTINUED)		
UNIV OF NEVADA-RENO	209,658	
UNIV OF VIRGINIA	13,681	
UNIV WISC-MADISON	76,000	
WASHINGTON UNIVERSTY	40,000	
WOODSHOLE OCEAN INST	65,943	
YALE UNIVERSITY	288,933	6,120,074
HQ - OSS&A BIOSCIENCE PROGRAMS - SB		
BAYLOR UNIV MED COL	185,504	
BOWLING GREEN ST UNV	34,394	
BRANDEIS UNIVERSITY	380,658	
BRYN MAWR COLLEGE	18,298	
CALIF INST OF TECH	307,732	
CARNEGIE MELLON UNIV	116,368	
CATHOLIC UNIVERSITY	118,806	
COLORADO STATE UNIV	489,265	
CONCORDIA COLLEGE	11,419	
CORNELL UNIVERSITY	120,506	
DARTMOUTH COLLEGE	129,389	
DUKE UNIVERSITY	41,060	
EMORY UNIVERSITY	646,551	
FLORIDA STATE UNIV	1,530,643	
FORDHAM UNIVERSITY	6,548	
GEORGE WASHINGTON U	919,519	
HARVARD UNIVERSITY	278,724	
HOLLINS COLLEGE	43,859	
INDIANA UNIVERSITY	262,356	
JOHNS HOPKINS UNIV	256,325	
KANSAS STATE UNIV	103,804	
MASS INST OF TECH	3,438,450	
MICHIGAN STATE UNIV	333,773	
MISSISSIPPI STATE U	81,460	
NEW YORK UNIVERSITY	49,405	
NO CAROLINA STATE U	64,430	
NO DAKOTA STATE UNIV	9,000	
OHIO STATE UNIV	367,995	
OKLAHOMA CITY UNIV	411,450	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A BIOSCIENCE PROGRAMS - SB	(CONTINUED)	
OREGON STATE UNIV	103,103	
PENNSYLVANIA STATE U	1,083,948	
PRINCETON UNIVERSITY	1,023,115	
PURDUE UNIVERSITY	53,478	
ST JOHNS UNIVERSITY	46,995	
ST LOUIS UNIVERSITY	36,558	
STANFORD UNIVERSITY	2,867,278	
SUNY-ALBANY	51,601	
SUNY-BUFFALO	601,787	
SYRACUSE UNIVERSITY	51,453	
TEXAS WOMANS UNIV	291,933	
UNIV CALIF-BERKELEY	7,408,609	
UNIV CALIF-DAVIS	532,094	
UNIV CALIF-L ANGELES	1,287,911	
UNIV CALIF-S BARBARA	35,000	
UNIV CALIF-SAN DIEGO	372,747	
UNIV ILLINOIS-CHICGO	231,000	
UNIV ILLINOIS-URBANA	315,988	
UNIV MO-COLUMBIA	294,995	
UNIV MO-KANSAS CITY	67,200	
UNIV MO-ROLLA	38,730	
UNIV OF ALASKA	227,950	
UNIV OF ARIZONA	138,498	
UNIV OF CHICAGO	1,791,157	
UNIV OF COLORADO	102,504	
UNIV OF DETROIT	131,760	
UNIV OF FLORIDA	54,612	
UNIV OF GEORGIA	69,900	
UNIV OF HAWAII	146,378	
UNIV OF HOUSTON	508,833	
UNIV OF IOWA	36,229	
UNIV OF KANSAS	83,266	
UNIV OF KENTUCKY	1,193,247	
UNIV OF LOUISVILLE	30,115	
UNIV OF MARYLAND	1,951,617	
UNIV OF MASSACHUSETT	51,440	
UNIV OF MIAMI	1,018,695	
UNIV OF MICHIGAN	225,406	
UNIV OF MINNESOTA	1,901,393	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A BIOSCIENCE PROGRAMS - SB (CONTINUED)		
UNIV OF NEVADA-RENO	65,556	
UNIV OF NOTRE DAME	215,647	
UNIV OF PENNSYLVANIA	291,491	
UNIV OF PITTSBURGH	652,863	
UNIV OF ROCHESTER	802,781	
UNIV OF SO CAROLINA	2,545	
UNIV OF SOUTHERN CAL	611,241	
UNIV OF UTAH	19,994	
UNIV OF VIRGINIA	142,699	
UNIV TEXAS-SW MED SH	412,078	
UNIV WISC-MADISON	53,078	
UTAH STATE UNIV	95,806	
WASHINGTON ST UNIV	41,125	
WESTERN MICHIGAN U	26,389	
WOODSHOLE OCEAN INST	158,000	
YALE UNIVERSITY	963,069	41,770,576
HQ - OSS&A EARTH OBSERVATIONS - SR		
COLORADO STATE UNIV	54,982	
MARQUETTE UNIVERSITY	9,668	
MASS INST OF TECH	33,458	
NEW MEXICO STATE U	18,415	
NEW YORK UNIVERSITY	59,629	
OHIO STATE UNIV	262,256	
SAN JOSE STATE COL	17,929	
SYRACUSE UNIVERSITY	12,000	
UNIV CALIF-L ANGELES	75,330	
UNIV ILLINOIS-URBANA	147,000	
UNIV OF HAWAII	184,492	
UNIV OF KANSAS	12,050	
UNIV OF MIAMI	36,585	
UNIV OF MICHIGAN	128,960	
UNIV OF NEVADA-RENO	23,750	
UNIV OF PENNSYLVANIA	52,531	
UNIV OF SO FLORIDA	85,455	
UNIV TEX-DALLAS	100,000	
UNIV WISC-MADISON	134,050	1,448,543

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OSS&A PROG REVIEW & RES MG - SP		
PRINCETON UNIVERSITY	100,000	
UNIV CALIF-DAVIS	33,378	133,378
HQ - OMSF APOLLO PROGRAM -		
FLORIDA STATE UNIV	6,400	
UNIV CALIF-L ANGELES	60,741	
UNIV CALIF-SAN DIEGO	29,888	
UNIV OF MARYLAND	50,000	
UNIV OF MINNESOTA	55,000	202,029
HQ - OMSF ADV MANNED MISSIONS -		
BAYLOR UNIVERSITY	5,625	
HARVARD UNIVERSITY	122,967	
JOHNS HOPKINS UNIV	6,000	
OHIO STATE UNIV	174,411	
PRINCETON UNIVERSITY	346,000	
UNIV TEXAS-AUSTIN	91,856	746,859
HQ - OMSF APOLLO APLICATIONS -		
CALIF INST OF TECH	49,913	
CASE WESTERN RESERVE	60,000	
CORNELL UNIVERSITY	115,049	
EMORY UNIVERSITY	100,000	
HARVARD UNIVERSITY	22,000	
JOHNS HOPKINS UNIV	70,000	
MASS INST OF TECH	1,326,600	
NORTHWESTERN UNIV	97,418	
UNIV CALIF-BERKELEY	760,000	
UNIV CALIF-L ANGELES	575,450	
UNIV CALIF-SAN DIEGO	164,714	
UNIV OF ARIZONA	124,660	
UNIV OF HAWAII	24,847	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
HQ - OMSF APOLLO APLICATIONS -	(CONTINUED)	
UNIV OF MINNESOTA	158,565	
UNIV OF SOUTHERN CAL	193,000	
WASHINGTON UNIVERSTY	120,741	3,962,957
HQ - OMSF SPACE STATION -		
HARVARD UNIVERSITY	16,590	
MASS INST OF TECH	158,937	
NORTHWESTERN UNIV	21,469	
OHIO STATE UNIV	120,000	
PURDUE UNIVERSITY	224,998	
UNIV CALIF-BERKELEY	48,257	
UNIV OF ARIZONA	70,656	
UNIV OF KANSAS	230,451	
UNIV OF MARYLAND	45,000	
UNIV OF MICHIGAN	100,000	
UNIV OF VIRGINIA	4,819	1,041,177
HQ - OMSF MSF PROGRAM CONTROL -		
HARVARD UNIVERSITY	8,333	
UNIV CALIF-L ANGELES	149,202	
UNIV OF ARIZONA	32,023	
UNIV OF MICHIGAN	29,456	
UNIV OF WASHINGTON	15,270	
VIRGINIA COMNWLTH U	58,000	292,284
AMES RESEARCH CTR		
ARIZONA STATE UNIV	35,808	
BAYLOR UNIVERSITY	85,861	
BOWLING GREEN ST UNV	255,575	
BRADLEY UNIVERSITY	6,995	
CALIF INST OF TECH	103,715	
CITY COLLEGE OF N Y	7,989	
CLARKSON COL OF TECH	42,029	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
AMES RESEARCH CTR	(CONTINUED)	
CLEMSON UNIVERSITY	26,702	
COLORADO STATE UNIV	355,774	
COLUMBIA UNIVERSITY	117,261	
CORNELL UNIVERSITY	18,374	
DARTMOUTH COLLEGE	27,845	
EMORY UNIVERSITY	291,800	
FLORIDA SOUTHERN COL	26,785	
GEORGETOWN UNIV	15,000	
GEORGIA INST OF TECH	41,202	
HARVARD UNIVERSITY	425,787	
HOWARD UNIVERSITY	222,788	
INDIANA UNIVERSITY	18,000	
JOHNS HOPKINS UNIV	89,950	
KANSAS STATE UNIV	173,580	
MASS INST OF TECH	803,726	
NEW YORK MEDICAL COL	7,090	
NO CAROLINA STATE U	27,072	
OHIO STATE UNIV	171,170	
PENNSYLVANIA STATE U	13,621	
POLY INST BROOKLYN	55,983	
PRINCETON UNIVERSITY	72,599	
PURDUE UNIVERSITY	30,990	
RICE UNIVERSITY	239,794	
S FRANCISCO ST COL	33,823	
SAN JOSE STATE COL	146,628	
SOUTHERN ILLINOIS U	63,399	
ST JOSEPH COLLEGE	5,500	
STANFORD UNIVERSITY	5,253,717	
TEXAS CHRISTIAN UNIV	312,101	
TEXAS WOMANS UNIV	207,663	
UNIV CALIF-BERKELEY	2,122,843	
UNIV CALIF-DAVIS	813,507	
UNIV CALIF-L ANGELES	8,676,853	
UNIV CALIF-S BARBARA	110,179	
UNIV CALIF-S CRUZ	44,274	
UNIV CALIF-SAN DIEGO	555,953	
UNIV CALIF-SAN FRAN	182,994	
UNIV ILLINOIS-CHICGO	93,890	
UNIV ILLINOIS-URBANA	163,718	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
AMES RESEARCH CTR (CONTINUED)		
UNIV MO-COLUMBIA	57,000	
UNIV MO-ROLLA	68,054	
UNIV NEW HAMPSHIRE	11,000	
UNIV OF ARIZONA	170,915	
UNIV OF ARKANSAS	57,495	
UNIV OF CHICAGO	1,213,189	
UNIV OF CINCINNATI	44,034	
UNIV OF COLORADO	14,998	
UNIV OF DENVER	12,991	
UNIV OF HAWAII	258,599	
UNIV OF IOWA	300,000	
UNIV OF KANSAS	20,430	
UNIV OF KENTUCKY	150,000	
UNIV OF LOUISVILLE	188,125	
UNIV OF MARYLAND	85,687	
UNIV OF MICHIGAN	160,000	
UNIV OF MINNESOTA	3,332,294	
UNIV OF MISSISSIPPI	64,158	
UNIV OF NOTRE DAME	45,000	
UNIV OF OKLAHOMA	4,056	
UNIV OF OREGON	181,135	
UNIV OF PENNSYLVANIA	401,730	
UNIV OF ROCHESTER	23,000	
UNIV OF SANTA CLARA	100,484	
UNIV OF SOUTHERN CAL	1,344,472	
UNIV OF ST THOMAS	171,172	
UNIV OF UTAH	31,370	
UNIV OF VIRGINIA	353,608	
UNIV OF WASHINGTON	52,642	
UNIV SAN FRANCISCO	159,333	
UNIV TEX-BIOMED GRAD	106,970	
UNIV TEX-DALLAS	2,752,269	
UNIV TEXAS-SW MED SH	635,475	
UNIV WISC-MADISON	183,203	
UTAH STATE UNIV	18,036	
VILLANOVA UNIV	47,287	
VIRGINIA POLY INST	13,425	
WASHINGTON UNIVERSTY	92,562	
WEST VIRGINIA UNIV	100,000	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
AMES RESEARCH CTR	(CONTINUED)	
WICHITA STATE UNIV	24,499	
WORCESTER POLY INST	118,611	
YALE UNIVERSITY	130,587	
YESHIVA UNIVERSITY	247,797	36,145,599
LEWIS RESEARCH CTR		
ALFRED UNIVERSITY	17,634	
AMERICAN UNIVERSITY	99,997	
BROWN UNIVERSITY	273,231	
CAL ST COL-LNG BEACH	23,183	
CALIF INST OF TECH	125,325	
CARNEGIE MELLON UNIV	29,670	
CASE WESTERN RESERVE	637,930	
CITY COLLEGE OF N Y	146,159	
CLEVELAND STATE UNIV	35,000	
COLORADO STATE UNIV	213,389	
CORNELL UNIVERSITY	156,238	
DREXEL INST OF TECH	195,774	
GEORGIA INST OF TECH	163,755	
HARVARD UNIVERSITY	44,809	
HIRAM COLLEGE	154,466	
ILL INST OF TECH	94,644	
IOWA STATE UNIV	45,000	
JOHN CARROLL UNIV	73,700	
KENT STATE UNIV	127,598	
LEHIGH UNIVERSITY	32,962	
MASS INST OF TECH	470,494	
MICHIGAN STATE UNIV	24,126	
MICHIGAN TECH UNIV	31,158	
NEW YORK UNIVERSITY	33,753	
NEWARK COLLEGE ENGRG	108,918	
PENNSYLVANIA STATE U	466,229	
PRINCETON UNIVERSITY	2,069,897	
PURDUE UNIVERSITY	101,919	
STANFORD UNIVERSITY	1,254,003	
SUNY-STONY BROOK	21,000	
SYRACUSE UNIVERSITY	219,703	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
LEWIS RESEARCH CTR	(CONTINUED)	
TEMPLE UNIVERSITY	57,106	
TEXAS A&M UNIVERSITY	28,950	
UNION COLLEGE	20,000	
UNIV CALIF-BERKELEY	449,020	
UNIV ILLINOIS-URBANA	299,460	
UNIV OF ARIZONA	125,130	
UNIV OF CINCINNATI	280,594	
UNIV OF CONNECTICUT	167,925	
UNIV OF DENVER	84,823	
UNIV OF FLORIDA	157,640	
UNIV OF KENTUCKY	62,739	
UNIV OF MICHIGAN	505,612	
UNIV OF MINNESOTA	621,205	
UNIV OF PITTSBURGH	107,166	
UNIV OF TENNESSEE	143,437	
UNIV OF UTAH	32,058	
UNIV OF VIRGINIA	85,687	
UNIV WISC-MADISON	39,960	
VANDERBILT UNIV	19,651	10,779,827
LANGLEY RESEARCH CTR		
ARIZONA STATE UNIV	13,775	
BRADLEY UNIVERSITY	14,945	
BRANDEIS UNIVERSITY	125,475	
BROWN UNIVERSITY	20,402	
CARNEGIE MELLON UNIV	159,318	
CASE WESTERN RESERVE	199,778	
CITY COLLEGE OF N Y	97,754	
CLARKSON COL OF TECH	65,610	
CLEMSON UNIVERSITY	26,894	
COLLEGE OF WM & MARY	1,257,463	
COLUMBIA UNIVERSITY	115,415	
CORNELL UNIVERSITY	67,170	
DREXEL INST OF TECH	77,883	
EAST TENNESSEE ST U	20,350	
EMORY UNIVERSITY	78,000	
GEORGE WASHINGTON U	150,000	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
LANGLEY RESEARCH CTR	(CONTINUED)	
GEORGETOWN UNIV	302,981	
GEORGIA INST OF TECH	240,926	
HAMPTON INSTITUTE	207,932	
HARVARD UNIVERSITY	260,372	
KENT STATE UNIV	13,908	
LA ST U-BATON ROUGE	234,237	
LEHIGH UNIVERSITY	276,950	
LOWELL TECH INST	50,875	
MARQUETTE UNIVERSITY	59,430	
MASS INST OF TECH	3,759,894	
MICHIGAN STATE UNIV	6,840	
MISSISSIPPI STATE U	163,820	
MONTANA STATE UNIV	17,314	
NEW YORK UNIVERSITY	836,543	
NO CAROLINA STATE U	1,130,848	
NORTHEASTERN UNIV	30,000	
NORTHWESTERN UNIV	76,611	
OHIO STATE UNIV	403,491	
OKLAHOMA STATE UNIV	101,782	
OLD DOMINION COLLEGE	374,408	
PENNSYLVANIA STATE U	194,320	
PRINCETON UNIVERSITY	328,831	
PURDUE UNIVERSITY	121,483	
RENSSELAER POLY INST	951,249	
RICE UNIVERSITY	73,090	
RUTGERS-THE STATE U	106,428	
SOUTHERN ILLINOIS U	19,790	
ST LOUIS UNIVERSITY	141,875	
STANFORD UNIVERSITY	78,443	
STEVENS INST OF TECH	235,894	
SYRACUSE UNIVERSITY	35,000	
TEMPLE UNIVERSITY	285,279	
TENNESSEE TECH U	13,069	
TEXAS A&M UNIVERSITY	396,107	
TEXAS CHRISTIAN UNIV	87,781	
TEXAS TECH COLLEGE	38,170	
UNIV CALIF-S BARBARA	41,695	
UNIV CALIF-SAN DIEGO	119,620	
UNIV ILLINOIS-CHICGO	21,957	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
LANGLEY RESEARCH CTR	(CONTINUED)	
UNIV ILLINOIS-URBANA	22,228	
UNIV MO-COLUMBIA	33,162	
UNIV MO-KANSAS CITY	42,870	
UNIV OF AKRON	4,000	
UNIV OF ARKANSAS	23,902	
UNIV OF CINCINNATI	127,280	
UNIV OF DELAWARE	15,000	
UNIV OF DENVER	125,662	
UNIV OF FLORIDA	63,689	
UNIV OF GEORGIA	18,501	
UNIV OF IOWA	4,493,773	
UNIV OF KANSAS	50,480	
UNIV OF MARYLAND	28,000	
UNIV OF MICHIGAN	716,221	
UNIV OF MINNESOTA	60,660	
UNIV OF NEW MEXICO	52,785	
UNIV OF OKLAHOMA	30,549	
UNIV OF PENNSYLVANIA	36,858	
UNIV OF PITTSBURGH	84,022	
UNIV OF ROCHESTER	116,488	
UNIV OF TENNESSEE	23,780	
UNIV OF UTAH	378,819	
UNIV OF VIRGINIA	1,659,541	
UNIV OF WASHINGTON	384,552	
UNIV OF WYOMING	197,075	
UNIV TEXAS-AUSTIN	234,234	
VANDERBILT UNIV	23,900	
VILLANOVA UNIV	58,192	
VIRGINIA COMNWLTH U	456,276	
VIRGINIA POLY INST	513,639	
WICHITA STATE UNIV	116,719	24,522,332
FLIGHT RESEARCH CTR		
TEXAS A&M UNIVERSITY	19,645	
UNIV CALIF-L ANGELES	148,952	
UNIV OF COLORADO	70,923	
UNIV OF OREGON	10,050	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
FLIGHT RESEARCH CTR	(CONTINUED)	
UNIV OF SOUTHERN CAL	7,000	256,570
ELECTRONICS RES CTR		
AMERICAN UNIVERSITY	30,000	
ARIZONA STATE UNIV	54,701	
ARKANSAS STATE UNIV	20,000	
AUBURN UNIVERSITY	96,178	
BOSTON UNIVERSITY	25,918	
BROWN UNIVERSITY	304,934	
CALIF INST OF TECH	90,200	
CARNEGIE MELLON UNIV	45,000	
CASE WESTERN RESERVE	365,001	
COLORADO STATE UNIV	87,295	
COLUMBIA UNIVERSITY	62,171	
CORNELL UNIVERSITY	282,923	
DREXEL INST OF TECH	32,057	
FAIRLEIGH-DICKNSON U	15,000	
GEORGE WASHINGTON U	14,865	
GEORGIA INST OF TECH	10,000	
HARVARD UNIVERSITY	927,901	
ILL INST OF TECH	24,949	
JOHNS HOPKINS UNIV	32,704	
LEHIGH UNIVERSITY	14,950	
LOWELL TECH INST	819,329	
MASS INST OF TECH	9,722,650	
NE LOUISIANA ST COL	76,524	
NEW YORK UNIVERSITY	50,000	
NEWARK COLLEGE ENGRG	15,000	
NO CAROLINA STATE U	15,000	
NORTHEASTERN UNIV	624,725	
NORTHWESTERN UNIV	12,056	
OAKLAND UNIVERSITY	50,000	
OHIO STATE UNIV	216,222	
OHIO UNIVERSITY	26,867	
POLY INST BROOKLYN	267,695	
PROVIDENCE COLLEGE	10,000	
PURDUE UNIVERSITY	39,900	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
ELECTRONICS RES CTR	(CONTINUED)	
RENSSELAER POLY INST	41,000	
RUTGERS-THE STATE U	22,154	
SO DAKOTA STATE UNIV	6,330	
SOUTHERN METHODIST U	50,527	
STANFORD UNIVERSITY	749,683	
STEVENS INST OF TECH	168,229	
SUNY-STONY BROOK	53,579	
SYRACUSE UNIVERSITY	15,480	
TUFTS UNIVERSITY	66,376	
TULANE UNIVERSITY	60,499	
UNIV CALIF-BERKELEY	161,000	
UNIV CALIF-DAVIS	28,881	
UNIV CALIF-L ANGELES	249,272	
UNIV CALIF-RIVERSIDE	20,000	
UNIV CALIF-S BARBARA	14,859	
UNIV CALIF-S CRUZ	50,000	
UNIV CALIF-SAN DIEGO	162,000	
UNIV ILLINOIS-URBANA	80,000	
UNIV MO-COLUMBIA	37,580	
UNIV MO-KANSAS CITY	155,783	
UNIV N CAR-CHPL HILL	45,000	
UNIV NEW HAMPSHIRE	190,032	
UNIV OF ARKANSAS	14,999	
UNIV OF COLORADO	51,427	
UNIV OF DENVER	24,858	
UNIV OF FLORIDA	15,304	
UNIV OF HAWAII	26,981	
UNIV OF KANSAS	80,000	
UNIV OF MARYLAND	50,201	
UNIV OF MASSACHUSETT	94,029	
UNIV OF MIAMI	94,100	
UNIV OF MICHIGAN	218,200	
UNIV OF NOTRE DAME	10,000	
UNIV OF PENNSYLVANIA	85,395	
UNIV OF SANTA CLARA	30,000	
UNIV OF SOUTHERN CAL	65,376	
UNIV OF TENNESSEE	50,000	
UNIV OF VERMONT	43,640	
UNIV OF VIRGINIA	20,000	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
ELECTRONICS RES CTR	(CONTINUED)	
UNIV TEXAS-AUSTIN	283,655	
VANDERBILT UNIV	68,657	
VIRGINIA COMNWLTH U	25,000	
VIRGINIA POLY INST	29,666	
WOODSHOLE OCEAN INST	450,000	
WORCESTER POLY INST	25,000	18,767,467
GODDARD SPAC FLT CTR		
AMERICAN UNIVERSITY	127,448	
BRANDEIS UNIVERSITY	28,875	
BRIGHAM YOUNG UNIV	21,000	
BROWN UNIVERSITY	28,073	
CALIF INST OF TECH	773,800	
CARNEGIE MELLON UNIV	29,882	
CASE WESTERN RESERVE	57,965	
CATHOLIC UNIVERSITY	101,638	
CITY COLLEGE OF N Y	35,000	
COL OF HOLY CROSS	118,485	
COLLEGE OF WM & MARY	36,925	
COLORADO STATE UNIV	724,888	
COLUMBIA UNION COL	10,500	
COLUMBIA UNIVERSITY	579,253	
DARTMOUTH COLLEGE	1,421,798	
DUKE UNIVERSITY	666,099	
FAIRFIELD UNIVERSITY	44,620	
FLORIDA STATE UNIV	14,832	
FLORIDA TECH UNIV	12,500	
GEORGE WASHINGTON U	567,992	
HARVARD UNIVERSITY	6,680,629	
HOWARD UNIVERSITY	104,398	
ILL INST OF TECH	99,900	
IOWA STATE UNIV	945,700	
JOHNS HOPKINS UNIV	434,445	
MASS INST OF TECH	10,165,693	
NEW MEX INST MINING	25,100	
NEW MEXICO STATE U	11,446,898	
NEW YORK UNIVERSITY	945,059	

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WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
GODDARD SPAC FLT CTR	(CONTINUED)	
NO CAROLINA STATE U	237,703	
NORTHEASTERN UNIV	60,698	
NORTHWESTERN UNIV	109,718	
OHIO STATE UNIV	149,992	
OKLAHOMA STATE UNIV	506,392	
OLD DOMINION COLLEGE	25,000	
PAN AMERICAN COLLEGE	61,000	
PENNSYLVANIA STATE U	93,937	
POLY INST BROOKLYN	41,364	
PRINCETON UNIVERSITY	12,012,056	
PURDUE UNIVERSITY	38,000	
RENSSELAER POLY INST	53,560	
RICE UNIVERSITY	560,908	
ROSE POLYTECHNIC	26,000	
RUTGERS-THE STATE U	1,706,934	
SO DAKOTA SCHL MINES	29,444	
SOUTHERN METHODIST U	62,051	
STANFORD UNIVERSITY	3,158,895	
TEMPLE UNIVERSITY	697,200	
UNIV CALIF-BERKELEY	3,711,468	
UNIV CALIF-DAVIS	27,802	
UNIV CALIF-L ANGELES	3,152,905	
UNIV CALIF-RIVERSIDE	61,953	
UNIV CALIF-S BARBARA	30,215	
UNIV CALIF-SAN DIEGO	3,794,438	
UNIV ILLINOIS-URBANA	84,990	
UNIV MO-COLUMBIA	67,130	
UNIV N CAR-CHPL HILL	3,000	
UNIV NEW HAMPSHIRE	2,516,240	
UNIV OF ALASKA	5,790,919	
UNIV OF ARIZONA	790,326	
UNIV OF ARKANSAS	77,121	
UNIV OF CHICAGO	6,374,007	
UNIV OF COLORADO	1,978,348	
UNIV OF DELAWARE	53,964	
UNIV OF DENVER	87,600	
UNIV OF FLORIDA	14,382	
UNIV OF IOWA	3,133,945	
UNIV OF MARYLAND	2,723,620	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
GODDARD SPAC FLT CTR	(CONTINUED)	
UNIV OF MASSACHUSETT	63,218	
UNIV OF MICHIGAN	15,147,578	
UNIV OF MINNESOTA	3,067,855	
UNIV OF NEW MEXICO	1,570,211	
UNIV OF NORTH DAKOTA	38,470	
UNIV OF NOTRE DAME	142,158	
UNIV OF PENNSYLVANIA	277,856	
UNIV OF PITTSBURGH	319,101	
UNIV OF PUERTO RICO	59,500	
UNIV OF ROCHESTER	1,130,408	
UNIV OF SO FLORIDA	49,883	
UNIV OF SOUTHERN CAL	39,962	
UNIV OF WASHINGTON	36,600	
UNIV OF WYOMING	263,000	
UNIV TEX-DALLAS	3,120,171	
UNIV TEXAS-AUSTIN	174,216	
UNIV TEXAS-EL PASO	488,476	
UNIV WISC-MADISON	7,054,533	
WEST VIRGINIA UNIV	53,582	
WOODSTOCK COLLEGE	7,000	
YALE UNIVERSITY	571,308	
YESHIVA UNIVERSITY	172,000	124,201,706
WALLOPS STATION		
PRINCETON UNIVERSITY	24,730	
RICE UNIVERSITY	4,138,159	
UNIV OF VIRGINIA	77,658	
UNIV TEXAS-EL PASO	74,609	4,315,156
MARSHALL SPACFLT CTR		
ALABAMA A&M COLLEGE	29,093	
ARIZONA STATE UNIV	22,553	
AUBURN UNIVERSITY	4,814,877	
BROWN UNIVERSITY	85,377	
CALIF INST OF TECH	173,494	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
MARSHALL SPACFLT CTR	(CONTINUED)	
CARNEGIE MELLON UNIV	93,780	
CASE WESTERN RESERVE	21,067	
CLARK UNIVERSITY	14,881	
CLEMSON UNIVERSITY	81,050	
COLORADO SCH OF MINE	10,110	
COLORADO STATE UNIV	256,983	
COLUMBIA UNIVERSITY	234,564	
DREXEL INST OF TECH	59,029	
FLORIDA STATE UNIV	45,920	
GEORGE WASHINGTON U	12,112	
GEORGIA INST OF TECH	1,598,576	
HARVARD UNIVERSITY	15,033,758	
INDIANA UNIVERSITY	15,825	
IOWA STATE UNIV	14,770	
JOHNS HOPKINS UNIV	87,069	
LA ST U-BATON ROUGE	232,076	
MASS INST OF TECH	606,583	
MISSISSIPPI STATE U	671,544	
NE LOUISIANA ST COL	71,151	
NEWARK COLLEGE ENGRG	22,631	
NO CAROLINA STATE U	12,279	
NORTHWESTERN UNIV	223,146	
OHIO STATE UNIV	179,945	
OHIO UNIVERSITY	351,338	
OKLAHOMA STATE UNIV	497,062	
PENNSYLVANIA STATE U	138,396	
PRINCETON UNIVERSITY	275,337	
PURDUE UNIVERSITY	421,358	
RENSSELAER POLY INST	98,947	
SOUTHERN METHODIST U	33,476	
STANFORD UNIVERSITY	29,029	
SYRACUSE UNIVERSITY	54,976	
TEXAS A&M UNIVERSITY	101,899	
TEXAS CHRISTIAN UNIV	80,000	
TULANE UNIVERSITY	611,627	
UNIV ALA-HUNTSVILLE	588,310	
UNIV ALA-TUSCALOOSA	3,517,044	
UNIV CALIF-BERKELEY	764,632	
UNIV CALIF-L ANGELES	32,230	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
MARSHALL SPACFLT CTR	(CONTINUED)	
UNIV CALIF-SAN DIEGO	524,737	
UNIV ILLINOIS-URBANA	59,304	
UNIV N CAR-CHPL HILL	95,810	
UNIV OF ARIZONA	154,145	
UNIV OF ARKANSAS	37,010	
UNIV OF CHICAGO	99,398	
UNIV OF DENVER	65,125	
UNIV OF FLORIDA	155,972	
UNIV OF GEORGIA	384,010	
UNIV OF KANSAS	4,990	
UNIV OF KENTUCKY	71,593	
UNIV OF MICHIGAN	2,397,938	
UNIV OF MINNESOTA	25,794	
UNIV OF OKLAHOMA	29,856	
UNIV OF PITTSBURGH	19,659	
UNIV OF SOUTHERN CAL	107,924	
UNIV OF ST THOMAS	88,417	
UNIV OF TENNESSEE	526,288	
UNIV OF UTAH	15,980	
UNIV OF VIRGINIA	23,500	
UNIV OF WYOMING	19,921	
UNIV SO MISSISSIPPI	8,272	
UNIV TEXAS-AUSTIN	149,676	
UNIV WISC-MADISON	689,816	
VANDERBILT UNIV	315,173	
VIRGINIA POLY INST	72,000	
WASHINGTON ST UNIV	142,042	
WAYNE STATE UNIV	20,021	38,624,275
MANNED SPACECRFT CTR		
BAYLOR UNIV MED COL	1,412,442	
BAYLOR UNIVERSITY	324,013	
CALIF INST OF TECH	502,000	
CARNEGIE MELLON UNIV	53,000	
CASE WESTERN RESERVE	448,101	
CENTENARY COLLEGE	36,500	
COLLEGE VIRGIN ISLND	17,340	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
MANNED SPACECRFT CTR	(CONTINUED)	
COLUMBIA UNIVERSITY	1,715,561	
CORNELL UNIVERSITY	100,239	
FORDHAM UNIVERSITY	210,435	
HARDING COLLEGE	137,214	
HARVARD UNIVERSITY	486,683	
HUMBOLDT ST COLLEGE	15,965	
ILL INST OF TECH	44,837	
INDIANA UNIVERSITY	125,834	
LA ST U-BATON ROUGE	60,428	
LA ST U-SHREVEPORT	8,040	
LAMAR ST COL OF TECH	23,558	
LEHIGH UNIVERSITY	39,500	
LONG ISLAND UNIV	152,099	
LOUISIANA POLY INST	28,087	
MASS INST OF TECH	129,216,522	
MISSISSIPPI STATE U	90,000	
NEW JERSEY COL MED	170,216	
NEW MEXICO STATE U	177,574	
NO CAROLINA STATE U	63,511	
NO TEXAS STATE UNIV	54,696	
NORTHWESTERN UNIV	1,623,406	
OHIO STATE UNIV	269,552	
OKLAHOMA STATE UNIV	94,500	
OREGON STATE UNIV	87,340	
PRINCETON UNIVERSITY	76,000	
PURDUE UNIVERSITY	64,109	
RICE UNIVERSITY	5,604,595	
SAN DIEGO STATE COL	24,418	
SETON HALL UNIV	166,365	
SOUTHERN METHODIST U	713,898	
ST LOUIS UNIVERSITY	49,860	
STANFORD UNIVERSITY	899,993	
SUNY-ALBANY	115,831	
SUNY-STONY BROOK	703,511	
TENNESSEE TECH U	33,616	
TEXAS A&I UNIVERSITY	11,463	
TEXAS A&M UNIVERSITY	974,876	
TEXAS SOUTHERN UNIV	78,433	
TEXAS TECH COLLEGE	75,262	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
MANNED SPACECRFT CTR	(CONTINUED)	
TEXAS WOMANS UNIV	350,110	
UNIV CALIF-BERKELEY	4,008,846	
UNIV CALIF-DAVIS	86,557	
UNIV CALIF-L ANGELES	719,308	
UNIV CALIF-S CRUZ	96,450	
UNIV CALIF-SAN DIEGO	411,103	
UNIV CALIF-SAN FRAN	136,111	
UNIV MO-COLUMBIA	54,000	
UNIV N CAR-CHPL HILL	6,129	
UNIV OF ALASKA	514,589	
UNIV OF ARIZONA	275,461	
UNIV OF CHICAGO	319,000	
UNIV OF CONNECTICUT	14,769	
UNIV OF DENVER	183,801	
UNIV OF HOUSTON	1,843,257	
UNIV OF IOWA	46,310	
UNIV OF KANSAS	405,000	
UNIV OF KENTUCKY	122,000	
UNIV OF MARYLAND	1,479,686	
UNIV OF MIAMI	82,500	
UNIV OF MICHIGAN	735,885	
UNIV OF MINNESOTA	577,674	
UNIV OF NEVADA-RENO	218,765	
UNIV OF NEW MEXICO	41,940	
UNIV OF OREGON	474,667	
UNIV OF SOUTHERN CAL	120,629	
UNIV OF UTAH	20,013	
UNIV OF WASHINGTON	19,837	
UNIV TEX-ANDRSN HOSP	315,000	
UNIV TEX-BIOMED GRAD	191,100	
UNIV TEX-DALLAS	1,030,213	
UNIV TEX-DENTAL BRCH	35,000	
UNIV TEXAS-ARLINGTON	3,585	
UNIV TEXAS-AUSTIN	617,302	
UNIV TEXAS-EL PASO	17,130	
UNIV TEXAS-GALVESTON	202,470	
UNIV WISC-MADISON	139,726	
WASHINGTON UNIVERSTY	269,800	
YALE UNIVERSITY	184,400	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

FUNDING ORGANIZATION AND INSTITUTION	INSTITUTION OBLIGATIONS	FUNDING ORG SUB-TOTALS
MANNED SPACECRFT CTR	(CONTINUED)	
YESHIVA UNIVERSITY	117,677	163,869,223
KENNEDY SPACE CENTER		
FLA INST CONT U STUD	89,210	
FLA INST OF TECH	72,000	
GEORGIA INST OF TECH	74,382	
NEW MEXICO STATE U	1,341,652	
UNIV OF DENVER	10,946	
UNIV OF FLORIDA	441,089	
UNIV OF MIAMI	108,460	2,137,739
GRAND TOTAL		917,982,287

NASA - OBLIGATIONS TO EDUCATIONAL INSTITUTIONS

BY FUNDING INSTALLATION AND UNIQUE PROJECT

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
	NASA HEADQUARTERS		
000	MISCELLANEOUS RESEARCH	2,574,997	
104	PROPULSION TECHNOLOGY /LIQUIDATION/	346,000	
120	SPACE POWER AND ELECT PROP SYS SRT	2,374,578	
122	NUCLEAR ROCKETS PROPULSION SRT	1,875,456	
123	CHEMICAL AND SOLAR POWER SRT	2,274,079	
124	SPACE VEHICLE SYSTEMS SRT	3,913,197	
125	ELECTRONICS SYSTEMS SRT	10,042,813	
126	AERONAUTICAL VEHICLES ART	653,403	
127	HUMAN FACTOR SYSTEMS SRT	5,882,558	
128	CHEMICAL PROPULSION SRT	4,573,984	
129	RESEARCH PROGRAM SRT	32,432,683	
141	IDENTIFICATION AND DISSEMINATION	8,851,239	
143	ECONOMIC STUDIES	3,835,784	
150	TRACKING & DATA ACQUISITION SRT	592,453	
160	SPACE APPLICATIONS SRT	632,481	
164	COMMUNICATION AND NAVIGATION SRT	275,960	
169	EARTH RESOURCES - SRT	95,429	
180	LAUNCH VEHICLE DEVELOPMENT SRT	826,776	
181	TRAINING GRANTS	106,127,168	
182	FACILITIES GRANTS	42,628,039	
183	RESEARCH GRANTS	65,927,429	
184	SOCIO-ECON STUDIES /LIQUIDATN ONLY/	165,266	
185	PLANETARY EXPLORATION SRT SCIENCE	44,015,235	

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WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
	NASA HEADQUARTERS (CONTINUED)		
186	PLANETARY EXPLORATION SRT AD TEC DV	635,804	
188	PHYSICS AND ASTRONOMY SRT	64,347,187	
189	BIOSCIENCE SRT	40,715,137	
190	MANNED SPACE SCIENCES SRT	736,596	
191	PLANETARY QUARANTINE	192,800	
194	ADV PLAN MISSIONS TECH APMT	278,705	
195	LUNAR SCIENCE SRT	1,139,098	
383	DATA ANALYSIS-LUNAR	232,083	
384	DATA ANALYSIS-PLANETARY	32,530	
385	DATA ANALYSIS	2,836,081	
685	ADV STUDIES-GEOPHYSICS & ASTRONOMY	402,132	
718	NERVA	177,065	
721	V/STOL AIRCRAFT TECHNOLOGY	112,520	
731	CHEMICAL ROCKET EXPER ENGINEERING	12,021	
808	MARINER-MARS 1964	461,713	
811	PIONEER INTERN QUIET SUN YR	132,776	
814	LUNAR ORBITER	31,287	
815	VIKING	118,375	
817	MARINER-VENUS 1967	445,910	
821	ORBITING SOLAR OBSERVATORIES	775,339	
822	ADV ORBITING SOLAR OBSERVATORIES	39,000	
831	ORBITING ASTRONOMICAL OBSERVATORIES	2,668,074	
841	ORBITING GEOPHYSICAL OBSERVATORIES	480,809	
848	RETURNED LUNAR SAMPLE ANALYSIS	1,378,893	
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	3,998,650	
851	ENERGETIC PARTICLES EXPLOREPS	717,298	

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
	NASA HEADQUARTERS (CONTINUED)		
855	GEODETIC SATELLITES	444,670	
856	SUNBLAZER	359,175	
866	MANNED SATELLITE SCIENCE	1,320,941	
867	MANNED LUNAR SCIENCE	5,935	
873	BEACON EXPLORERS	729,881	
874	GERMAN RESEARCH SATELLITE	39,016	
877	RADIO ASTRONOMY EXPLORERS	394,949	
879	SOUNDING ROCKETS	20,134,848	
881	INFRARED SPECTROSCOPY /LIQUIDATION	862,639	
890	SCOUT DEVELOPMENT /LIQUIDATN ONLY/	240	
897	GAMMA RAY ASTRONMY SAT /LIQUIDATN/	122,526	
903	GEMINI SUPPORTING DEVELOPMENT	50,000	
904	APOLLO SUPPORTING DEVELOPMENT	269,967	
905	APOLLO APPLICATIONS SUPPORTING DEV	73,799	
908	ADV MANNED MISSIONS SUPP DEVELOP	7,093	
911	MERCURY /FOR LIQUIDATION ONLY/	292,284	
914	APOLLO SPACECRAFT	202,029	
942	APOLLO APPLICATIONS DESIGN & DEV	1,405,465	
945	MSF EXPERIMENT DEFINITION	2,557,492	
949	APOLLO APPLICATIONS EXPERIMENT DEF	33,377	
981	ADVANCED STUDIES-MANNED SPACE FLGT	1,041,177	494,362,393
	AMES RESEARCH CTR		
120	SPACE POWER AND ELECT PROP SYS SRT	42,064	

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WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
	AMES RESEARCH CTR (CONTINUED)		
124	SPACE VEHICLE SYSTEMS SRT	106,725	
125	ELECTRONICS SYSTEMS SRT	644,958	
126	AERONAUTICAL VEHICLES ART	304,819	
127	HUMAN FACTOR SYSTEMS SRT	7,222,543	
129	RESEARCH PROGRAM SRT	741,808	
130	MISSION ANALYSIS SRT	139,102	
185	PLANETARY EXPLORATION SRT SCIENCE	28,234	
186	PLANETARY EXPLORATION SRT AD TEC DV	29,700	
188	PHYSICS AND ASTRONOMY SRT	32,898	
189	BIOSCIENCE SRT	538,200	
194	ADV PLAN MISSIONS TECH APMT	30,000	
195	LUNAR SCIENCE SRT	52,387	
2110	COOLING/AERODYNAMICS FACILITY	4,950	
320	SPECIAL SUPPORT	19,500	
684	ADVANCED STUDIES-LUNAR & PLANETARY	68,998	
708	SMALL BIOTECHNOLOGY FLIGHTS/LIQUID	757,248	
721	V/STOL AIRCRAFT TECHNOLOGY	118	
749	APOLLO APPL EXPERIMENT DEFIN /ART/	41,000	
797	COMMON USE SVC CARRIER ACCOUNT-OART	38,662	
811	PIONEER INTERN QUIET SUN YR	9,865,284	
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	497,650	
879	SOUNDING ROCKETS	16,741	
883	BIOSATELLITES	14,740,784	
914	APOLLO SPACECRAFT	15,532	
945	MSF EXPERIMENT DEFINITION	123,095	
948	AAP EXPERIMENT DEVELOPMENT	42,599	36,145,599

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WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
	LEWIS RESEARCH CTR		
120	SPACE POWER AND ELECT PROP SYS SRT	3,143,314	
122	NUCLEAR ROCKETS PROPULSION SRT	540,137	
123	CHEMICAL AND SOLAR POWER SRT	907,714	
124	SPACE VEHICLE SYSTEMS SRT	531,946	
125	ELECTRONICS SYSTEMS SRT	45,912	
126	AERONAUTICAL VEHICLES ART	374,429	
128	CHEMICAL PROPULSION SRT	2,397,538	
129	RESEARCH PROGRAM SRT	1,379,552	
164	COMMUNICATION AND NAVIGATION SRT	33,318	
701	SNAP-8 DEVELOPMENT PROJECT	10,000	
720	SUPERSONIC AIRCRAFT TECHNOLOGY	1,182,959	
721	V/STOL AIRCRAFT TECHNOLOGY	155,980	
726	M-1 ENGINE DEVELOPMENT	3,500	
731	CHEMICAL ROCKET EXPER ENGINEERING	5,000	
879	SOUNDING ROCKETS	68,528	10,779,827
	LANGLEY RESEARCH CTR		
000	MISCELLANEOUS RESEARCH	14,999	
123	CHEMICAL AND SOLAR POWER SRT	50,000	
124	SPACE VEHICLE SYSTEMS SRT	4,853,229	
125	ELECTRONICS SYSTEMS SRT	4,463,828	
126	AERONAUTICAL VEHICLES ART	2,891,482	
127	HUMAN FACTOR SYSTEMS SRT	1,638,412	
128	CHEMICAL PROPULSION SRT	559,530	
129	RESEARCH PROGRAM SRT	1,461,449	
130	MISSION ANALYSIS SRT	91,720	
180	LAUNCH VEHICLE DEVELOPMENT SRT	17,003	

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WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
	LANGLEY RESEARCH CTR (CONTINUED)		
185	PLANETARY EXPLORATION SRT SCIENCE	25,278	
188	PHYSICS AND ASTRONOMY SRT	233,713	
189	BIOSCIENCE SRT	50,550	
607	METEOROLOGICAL SOUNDINGS	393,479	
709	SMALL SPACE VEHICLE FLIGHT PROJECT	12,115	
720	SUPERSONIC AIRCRAFT TECHNOLOGY	908,218	
721	V/STOL AIRCRAFT TECHNOLOGY	920,625	
722	HYPERSONIC RAMJET EXPERIMENT	67,366	
729	HYPERSONIC RESEARCH ENGINE	70,470	
730	RAM C /RADIO ATTENUATN MEASURMNTS/	107,000	
731	CHEMICAL ROCKET EXPER ENGINEERING	30,000	
736	GEN AVIATION AIRCRAFT TECH SUP RES	69,415	
863	AIR DENSITY/INJUN EXPLORERS	4,493,773	
879	SOUNDING ROCKETS	8,678	
911	MERCURY /FOR LIQUIDATION ONLY/	1,090,000	24,522,332
	FLIGHT RESEARCH CTR		
125	ELECTRONICS SYSTEMS SRT	163,952	
126	AERONAUTICAL VEHICLES ART	33,920	
708	SMALL BIOTECHNOLOGY FLIGHTS/LIQUID	17,050	
720	SUPERSONIC AIRCRAFT TECHNOLOGY	41,648	256,570

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WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
	ELECTRONICS RES CTR		
000	MISCELLANEOUS RESEARCH	1,042,014	
120	SPACE POWER AND ELECT PROP SYS SRT	141,239	
124	SPACE VEHICLE SYSTEMS SRT	65,000	
125	ELECTRONICS SYSTEMS SRT	13,406,065	
126	AERONAUTICAL VEHICLES ART	89,916	
127	HUMAN FACTOR SYSTEMS SRT	660,430	
129	RESEARCH PROGRAM SRT	287,744	
160	SPACE APPLICATIONS SRT	1,004,325	
180	LAUNCH VEHICLE DEVELOPMENT SRT	252,429	
188	PHYSICS AND ASTRONOMY SRT	40,180	
708	SMALL BIOTECHNOLOGY FLIGHTS/LIQUID	28,875	
797	COMMON USE SVC CARRIER ACCOUNT-OART	74,250	
855	GEODETIC SATELLITES	75,000	
905	APOLLO APPLICATIONS SUPPORTING DEV	1,600,000	18,767,467
	GODDARD SPAC FLT CTR		
000	MISCELLANEOUS RESEARCH	297,750	
120	SPACE POWER AND ELECT PROP SYS SRT	698,988	
123	CHEMICAL AND SOLAR POWER SRT	342,735	
124	SPACE VEHICLE SYSTEMS SRT	201,119	
125	ELECTRONICS SYSTEMS SRT	2,511,045	
129	RESEARCH PROGRAM SRT	19,707	
141	IDENTIFICATION AND DISSEMINATION	406,169	
150	TRACKING & DATA ACQUISITION SRT	741,233	
160	SPACE APPLICATIONS SRT	6,201,684	
164	COMMUNICATION AND NAVIGATION SRT	210,299	

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WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
	GODDARD SPAC FLT CTR (CONTINUED)		
180	LAUNCH VEHICLE DEVELOPMENT SRT	35,642	
183	RESEARCH GRANTS	75,000	
185	PLANETARY EXPLORATION SRT SCIENCE	437,790	
186	PLANETARY EXPLORATION SRT AD TEC DV	70,000	
188	PHYSICS AND ASTRONOMY SRT	3,362,829	
189	BIOSCIENCE SRT	89,001	
195	LUNAR SCIENCE SRT	36,150	
311	NETWORK OPERATIONS-T&D ACQUISITION	5,303,176	
312	EQUIP & COMPONENTS-T&D ACQUISITION	156,478	
384	DATA ANALYSIS-PLANETARY	8,000	
385	DATA ANALYSIS	362,293	
492	DELTA PROCUREMENT	301,431	
493	AGENA PROCUREMENT /EXCL GEMINI VEH/	298,000	
494	ATLAS/OTHER THAN MERCURY/PROCUREMNT	19,000	
497	SUSTAINING ENGINEERNG & MAINTENANCE	332,000	
5101	SPACE PROJECTS CENTER	115,000	
5113	LAUNCH PHASE SIMULATOR	23,658	
601	TIROS/TOS IMPROVEMENTS	219,883	
603	METEOROLOGICAL FLIGHT EXPERIMENTS	874,450	
604	NIMBUS	670,434	
607	METEOROLOGICAL SOUNDINGS	4,812,890	
610	COPP APPLICATIONS SATELLITE	64,654	
622	ECHO A-12 /INCLUDES AVT/	30,994	
626	RELAY	344,603	
627	SYNCOM	31,606	
630	APPLICATIONS TECHNOLOGY SATELLITES	4,529,057	
709	SMALL SPACE VEHICLE FLIGHT PROJECT	9,000	

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WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
	GODDARD SPAC FLT CTR (CONTINUED)		
803	SURVEYOR	198,886	
806	MARINER A /FOR LIQUIDATN ONLY/	50,000	
807	MARINER B /LIQUIDATION ONLY/	22,500	
811	PIONEER INTERN QUIET SUN YR	15,000	
821	ORBITING SOLAR OBSERVATORIES	15,544,782	
822	ADV ORBITING SOLAR OBSERVATORIES	242,339	
831	ORBITING ASTRONOMICAL OBSERVATORIES	24,089,156	
841	ORBITING GEOPHYSICAL OBSERVATORIES	25,471,427	
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	45,000	
851	ENERGETIC PARTICLES EXPLORERS	859,615	
852	ATMOSPHERE EXPLORERS	193,439	
853	IONOSPHERE EXPLORERS	3,000	
855	GEODETIC SATELLITES	211,100	
857	SMALL SCIENTIFIC SATELLITES (SSS)	261,000	
861	INTERPLANETARY EXPLORERS /IMP/	10,052,295	
870	UNITED KINGDOM SATELLITES	10,000	
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY	1,596,848	
873	BEACON EXPLORERS	28,000	
877	RADIO ASTRONOMY EXPLORERS	117,359	
879	SOUNDING ROCKETS	8,514,775	
891	CENTAUR DEVELOPMENT	156,000	
892	DELTA DEVELOPMENT /LIQUIDATN ONLY/	15,000	
894	JOINT ITALIAN/UNITED STATES PROJECT	276,720	
904	APOLLO SUPPORTING DEVELOPMENT	60,000	

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WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
	GODDARD SPAC FLT CTR (CONTINUED)		
9101	EQUIPMENT AND INSTRUMENTATION	195,000	
9106	DATA ACQUISITION FACILITY	1,534,208	
914	APOLLO SPACECRAFT	4,000	
923	GEMINI SUPPORT	15,000	
942	APOLLO APPLICATIONS DESIGN & DEV	170,000	
948	AAP EXPERIMENT DEVELOPMENT	5,509	124,201,706
	WALLOPS STATION		
188	PHYSICS AND ASTRONOMY SRT	88,160	
189	BIOSCIENCE SRT	77,658	
311	NETWORK OPERATIONS-T&D ACQUISITION	99,339	
859	UNIVERSITY EXPLORERS /RICE UNIV/	4,049,999	4,315,156
	MARSHALL SPACFLT CTR		
000	MISCELLANEOUS RESEARCH	12,112	
103	LAUNCH VEHICLE TECHN /LIQUIDATION/	1,223,543	
104	PROPULSION TECHNOLOGY /LIQUIDATION/	47,000	
120	SPACE POWER AND ELECT PROP SYS SRT	215,297	
123	CHEMICAL AND SOLAR POWER SRT	188,452	
124	SPACE VEHICLE SYSTEMS SRT	2,335,578	
125	ELECTRONICS SYSTEMS SRT	2,900,354	
126	AERONAUTICAL VEHICLES ART	20,021	
127	HUMAN FACTOR SYSTEMS SRT	106,695	
128	CHEMICAL PROPULSION SRT	48,980	
129	RESEARCH PROGRAM SRT	2,344,114	

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WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
	MARSHALL SPACFLT CTR (CONTINUED)		
141	IDENTIFICATION AND DISSEMINATION	232,501	
150	TRACKING & DATA ACQUISITION SRT	1,075,273	
160	SPACE APPLICATIONS SRT	438,908	
188	PHYSICS AND ASTRONOMY SRT	232,716	
818	VOYAGER	29,984	
822	ADV ORBITING SOLAR OBSERVATORIES	791,758	
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	297,029	
904	APOLLO SUPPORTING DEVELOPMENT	558,388	
905	APOLLO APPLICATIONS SUPPORTING DEV	826,858	
908	ADV MANNED MISSIONS SUPP DEVELOP	282,063	
914	APOLLO SPACECRAFT	125,000	
931	SATURN I VEHICLE	973,657	
932	SATURN 1B VEHICLE	752,572	
933	SATURN V VEHICLE	7,916,688	
940	ENGINE DEVELOPMENT	22,811	
945	MSF EXPERIMENT DEFINITION	347,678	
948	AAP EXPERIMENT DEVELOPMENT	13,984,715	
964	SATURN I WORKSHOP	182,457	
965	APOLLO TELESCOPE MOUNT	4,990	
975	SPACE STATION	40,000	
981	ADVANCED STUDIES-MANNED SPACE FLGT	66,083	38,624,275
	MANNED SPACECRFT CTR		
000	MISCELLANEOUS RESEARCH	226,943	
101	SPACECRAFT TECHNOLOGY /LIQUIDATION/	1,372,674	
124	SPACE VEHICLE SYSTEMS SRT	462,881	

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WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
	MANNED SPACECRFT CTR (CONTINUED)		
125	ELECTRONICS SYSTEMS SRT	485,000	
127	HUMAN FACTOR SYSTEMS SRT	655,205	
128	CHEMICAL PROPULSION SRT	183,801	
160	SPACE APPLICATIONS SRT	1,085,952	
169	EARTH RESOURCES - SRT	457,408	
185	PLANETARY EXPLORATION SRT SCIENCE	120,000	
188	PHYSICS AND ASTRONOMY SRT	559,543	
190	MANNED SPACE SCIENCES SRT	314,442	
640	EARTH RESOURCES SURVEY-AIRCRAFT	189,440	
848	RETURNED LUNAR SAMPLE ANALYSIS	955,547	
849	APOLLO APPL EXPERIMENT DEFIN /SSA/	253,529	
866	MANNED SATELLITE SCIENCE	123,860	
867	MANNED LUNAR SCIENCE	101,833	
903	GEMINI SUPPORTING DEVELOPMENT	229,485	
904	APOLLO SUPPORTING DEVELOPMENT	3,490,839	
905	APOLLO APPLICATIONS SUPPORTING DEV	2,146,133	
908	ADV MANNED MISSIONS SUPP DEVELOP	2,432,183	
911	MERCURY /FOR LIQUIDATION ONLY/	153,087	
912	MANNED ONE-DAY MISSION /LIQUIDATN/	33,454	
913	GEMINI SPACECRAFT	138,472	
914	APOLLO SPACECRAFT	138,439,520	
921	MISSION CONTROL SYSTEMS	429,606	
923	GEMINI SUPPORT	1,375,566	
924	APOLLO SPACE OPERATIONS	160,856	
942	APOLLO APPLICATIONS DESIGN & DEV	2,481,824	
945	MSF EXPERIMENT DEFINITION	1,577,493	
948	AAP EXPERIMENT DEVELOPMENT	879,135	

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WHOLE DOLLARS

UPN FPN	FUNDING INSTALLATION UNIQUE PROJECT TITLE	OBLIGATIONS	INSTALLATION TOTALS
	MANNED SPACECRFT CTR (CONTINUED)		
949	APOLLO APPLICATIONS EXPERIMENT DEF	307,037	
961	AAP SPACECRAFT DEVELOPMENT	771,642	
975	SPACE STATION	492,435	
981	ADVANCED STUDIES-MANNED SPACE FLGT	309,063	
997	COMMON USE SVC CARRIER ACCOUNT-OMSF	473,335	163,869,223
	KENNEDY SPACE CENTER		
000	MISCELLANEOUS RESEARCH	89,210	
105	LAUNCH OPERATION TECH /LIQUIDATION	38,175	
491	CENTAUR PROCUREMENT	140,999	
492	DELTA PROCUREMENT	602,000	
493	AGENA PROCUREMENT /EXCL GEMINI VEH/	141,999	
497	SUSTAINING ENGINEERNG & MAINTENANCE	456,654	
731	CHEMICAL ROCKET EXPER ENGINEERING	181,139	
904	APOLLO SUPPORTING DEVELOPMENT	415,563	
950	LAUNCH OPERATIONS SUPPORT	72,000	2,137,739
	GRAND TOTAL		917,982,287

NASA - OBLIGATIONS TO EDUCATIONAL INSTITUTIONS

BY UNIQUE PROJECT AND FUNDING INSTALLATION

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WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
000	MISCELLANEOUS RESEARCH		
	NASA HEADQUARTERS	2,574,997	
	LANGLEY RESEARCH CTR	14,999	
	ELECTRONICS RES CTR	1,042,014	
	GODDARD SPAC FLT CTR	297,750	
	MARSHALL SPACFLT CTR	12,112	
	MANNED SPACECRFT CTR	226,943	
	KENNEDY SPACE CENTER	89,210	4,258,025
101	SPACECRAFT TECHNOLOGY /LIQUIDATION/		
	MANNED SPACECRFT CTR	1,372,674	1,372,674
103	LAUNCH VEHICLE TECHN /LIQUIDATION/		
	MARSHALL SPACFLT CTR	1,223,543	1,223,543
104	PROPULSION TECHNOLOGY /LIQUIDATION/		
	NASA HEADQUARTERS	346,000	
	MARSHALL SPACFLT CTR	47,000	393,000
105	LAUNCH OPERATION TECH /LIQUIDATION		
	KENNEDY SPACE CENTER	38,175	38,175

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WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING-INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
120	SPACE POWER AND ELECT PROP SYS SRT		
	NASA HEADQUARTERS	2,374,578	
	AMES RESEARCH CTR	42,064	
	LEWIS RESEARCH CTR	3,143,314	
	ELECTRONICS RES CTR	141,239	
	GODDARD SPAC FLT CTR	698,988	
	MARSHALL SPACFLT CTR	215,297	6,615,480
122	NUCLEAR ROCKETS PROPULSION SRT		
	NASA HEADQUARTERS	1,875,456	
	LEWIS RESEARCH CTR	540,137	2,415,593
123	CHEMICAL AND SOLAR POWER SRT		
	NASA HEADQUARTERS	2,274,079	
	LEWIS RESEARCH CTR	907,714	
	LANGLEY RESEARCH CTR	50,000	
	GODDARD SPAC FLT CTR	342,735	
	MARSHALL SPACFLT CTR	188,452	3,762,980
124	SPACE VEHICLE SYSTEMS SRT		
	NASA HEADQUARTERS	3,913,197	
	AMES RESEARCH CTR	106,725	
	LEWIS RESEARCH CTR	531,946	
	LANGLEY RESEARCH CTR	4,853,229	
	ELECTRONICS RES CTR	65,000	
	GODDARD SPAC FLT CTR	201,119	
	MARSHALL SPACFLT CTR	2,335,578	
	MANNED SPACECRFT CTR	462,881	12,469,675

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WHOLE DOLLARS

UPN / FPN	UNIQUE PROJECT TITLE / FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
125	ELECTRONICS SYSTEMS SRT		
	NASA HEADQUARTERS	10,042,813	
	AMES RESEARCH CTR	644,958	
	LEWIS RESEARCH CTR	45,912	
	LANGLEY RESEARCH CTR	4,463,828	
	FLIGHT RESEARCH CTR	163,952	
	ELECTRONICS RES CTR	13,406,065	
	GODDARD SPAC FLT CTR	2,511,045	
	MARSHALL SPACFLT CTR	2,900,354	
	MANNED SPACECRFT CTR	485,000	34,663,927
126	AERONAUTICAL VEHICLES ART		
	NASA HEADQUARTERS	653,403	
	AMES RESEARCH CTR	304,819	
	LEWIS RESEARCH CTR	374,429	
	LANGLEY RESEARCH CTR	2,891,482	
	FLIGHT RESEARCH CTR	33,920	
	ELECTRONICS RES CTR	89,916	
	MARSHALL SPACFLT CTR	20,021	4,367,990
127	HUMAN FACTOR SYSTEMS SRT		
	NASA HEADQUARTERS	5,882,558	
	AMES RESEARCH CTR	7,222,543	
	LANGLEY RESEARCH CTR	1,638,412	
	ELECTRONICS RES CTR	660,430	
	MARSHALL SPACFLT CTR	106,695	
	MANNED SPACECRFT CTR	655,205	16,165,843
128	CHEMICAL PROPULSION SRT		
	NASA HEADQUARTERS	4,573,984	
	LEWIS RESEARCH CTR	2,397,538	
	LANGLEY RESEARCH CTR	559,530	
	MARSHALL SPACFLT CTR	48,980	
	MANNED SPACECRFT CTR	183,801	7,763,833

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WHOLE DOLLARS

UPN / FPN	UNIQUE PROJECT TITLE / FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
129	RESEARCH PROGRAM SRT		
	NASA HEADQUARTERS	32,432,683	
	AMES RESEARCH CTR	741,808	
	LEWIS RESEARCH CTR	1,379,552	
	LANGLEY RESEARCH CTR	1,461,449	
	ELECTRONICS RES CTR	287,744	
	GODDARD SPAC FLT CTR	19,707	
	MARSHALL SPACFLT CTR	2,344,114	38,667,057
130	MISSION ANALYSIS SRT		
	AMES RESEARCH CTR	139,102	
	LANGLEY RESEARCH CTR	91,720	230,822
141	IDENTIFICATION AND DISSEMINATION		
	NASA HEADQUARTERS	8,851,239	
	GODDARD SPAC FLT CTR	406,169	
	MARSHALL SPACFLT CTR	232,501	9,489,909
143	ECONOMIC STUDIES		
	NASA HEADQUARTERS	3,835,784	3,835,784
150	TRACKING & DATA ACQUISITION SRT		
	NASA HEADQUARTERS	592,453	
	GODDARD SPAC FLT CTR	741,233	
	MARSHALL SPACFLT CTR	1,075,273	2,408,959

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WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
160	SPACE APPLICATIONS SRT		
	NASA HEADQUARTERS	632,481	
	ELECTRONICS RES CTR	1,004,325	
	GODDARD SPAC FLT CTR	6,201,684	
	MARSHALL SPACFLT CTR	438,908	
	MANNED SPACECRFT CTR	1,085,952	9,363,350
164	COMMUNICATION AND NAVIGATION SRT		
	NASA HEADQUARTERS	275,960	
	LEWIS RESEARCH CTR	33,318	
	GODDARD SPAC FLT CTR	210,299	519,577
169	EARTH RESOURCES - SRT		
	NASA HEADQUARTERS	95,429	
	MANNED SPACECRFT CTR	457,408	552,837
180	LAUNCH VEHICLE DEVELOPMENT SRT		
	NASA HEADQUARTERS	826,776	
	LANGLEY RESEARCH CTR	17,003	
	ELECTRONICS RES CTR	252,429	
	GODDARD SPAC FLT CTR	35,642	1,131,850
181	TRAINING GRANTS		
	NASA HEADQUARTERS	106,127,168	106,127,168
182	FACILITIES GRANTS		
	NASA HEADQUARTERS	42,628,039	42,628,039

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WHOLE DOLLARS

UPN / FPN	UNIQUE PROJECT TITLE / FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
183	RESEARCH GRANTS		
	NASA HEADQUARTERS	65,927,429	
	GODDARD SPAC FLT CTR	75,000	66,002,429
184	SOCIO-ECON STUDIES /LIQUIDATN ONLY/		
	NASA HEADQUARTERS	165,266	165,266
185	PLANETARY EXPLORATION SRT SCIENCE		
	NASA HEADQUARTERS	44,015,235	
	AMES RESEARCH CTR	28,234	
	LANGLEY RESEARCH CTR	25,278	
	GODDARD SPAC FLT CTR	437,790	
	MANNED SPACECRFT CTR	120,000	44,626,537
186	PLANETARY EXPLORATION SRT AD TEC DV		
	NASA HEADQUARTERS	635,804	
	AMES RESEARCH CTR	29,700	
	GODDARD SPAC FLT CTR	70,000	735,504
188	PHYSICS AND ASTRONOMY SRT		
	NASA HEADQUARTERS	64,347,187	
	AMES RESEARCH CTR	32,898	
	LANGLEY RESEARCH CTR	233,713	
	ELECTRONICS RES CTR	40,180	
	GODDARD SPAC FLT CTR	3,362,829	
	WALLOPS STATION	88,160	
	MARSHALL SPACFLT CTR	232,716	
	MANNED SPACECRFT CTR	559,543	68,897,226

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WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
189	BIOSCIENCE SRT		
	NASA HEADQUARTERS	40,715,137	
	AMES RESEARCH CTR	538,200	
	LANGLEY RESEARCH CTR	50,550	
	GODDARD SPAC FLT CTR	89,001	
	WALLOPS STATION	77,658	41,470,546
190	MANNED SPACE SCIENCES SRT		
	NASA HEADQUARTERS	736,596	
	MANNED SPACECRFT CTR	314,442	1,051,038
191	PLANETARY QUARANTINE		
	NASA HEADQUARTERS	192,800	192,800
194	ADV PLAN MISSIONS TECH APMT		
	NASA HEADQUARTERS	278,705	
	AMES RESEARCH CTR	30,000	308,705
195	LUNAR SCIENCE SRT		
	NASA HEADQUARTERS	1,139,098	
	AMES RESEARCH CTR	52,387	
	GODDARD SPAC FLT CTR	36,150	1,227,635
2110	COOLING/AERODYNAMICS FACILITY		
	AMES RESEARCH CTR	4,950	4,950

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WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
311	NETWORK OPERATIONS-T&D ACQUISITION		
	GODDARD SPAC FLT CTR	5,303,176	
	WALLOPS STATION	99,339	5,402,515
312	EQUIP & COMPONENTS-T&D ACQUISITION		
	GODDARD SPAC FLT CTR	156,478	156,478
320	SPECIAL SUPPORT		
	AMES RESEARCH CTR	19,500	19,500
383	DATA ANALYSIS-LUNAR		
	NASA HEADQUARTERS	232,083	232,083
384	DATA ANALYSIS-PLANETARY		
	NASA HEADQUARTERS	32,530	
	GODDARD SPAC FLT CTR	8,000	40,530
385	DATA ANALYSIS		
	NASA HEADQUARTERS	2,836,081	
	GODDARD SPAC FLT CTR	362,293	3,198,374
491	CENTAUR PROCUREMENT		
	KENNEDY SPACE CENTER	140,999	140,999

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WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
492	DELTA PROCUREMENT		
	GODDARD SPAC FLT CTR	301,431	
	KENNEDY SPACE CENTER	602,000	903,431
493	AGENA PROCUREMENT /EXCL GEMINI VEH/		
	GODDARD SPAC FLT CTR	298,000	
	KENNEDY SPACE CENTER	141,999	439,999
494	ATLAS/OTHER THAN MERCURY/PROCUREMNT		
	GODDARD SPAC FLT CTR	19,000	19,000
497	SUSTAINING ENGINEERNG & MAINTENANCE		
	GODDARD SPAC FLT CTR	332,000	
	KENNEDY SPACE CENTER	456,654	788,654
5101	SPACE PROJECTS CENTER		
	GODDARD SPAC FLT CTR	115,000	115,000
5113	LAUNCH PHASE SIMULATOR		
	GODDARD SPAC FLT CTR	23,658	23,658
601	TIROS/TOS IMPROVEMENTS		
	GODDARD SPAC FLT CTR	219,883	219,883

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WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
603	METEOROLOGICAL FLIGHT EXPERIMENTS		
	GODDARD SPAC FLT CTR	874,450	874,450
604	NIMBUS		
	GODDARD SPAC FLT CTR	670,434	670,434
607	METEOROLOGICAL SOUNDINGS		
	LANGLEY RESEARCH CTR	393,479	
	GODDARD SPAC FLT CTR	4,812,890	5,206,369
610	COPP APPLICATIONS SATELLITE		
	GODDARD SPAC FLT CTR	64,654	64,654
622	ECHO A-12 /INCLUDES AVT/		
	GODDARD SPAC FLT CTR	30,994	30,994
626	RELAY		
	GODDARD SPAC FLT CTR	344,603	344,603
627	SYNCOM		
	GODDARD SPAC FLT CTR	31,606	31,606

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WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
630	APPLICATIONS TECHNOLOGY SATELLITES		
	GODDARD SPAC FLT CTR	4,529,057	4,529,057
640	EARTH RESOURCES SURVEY-AIRCRAFT		
	MANNED SPACECRFT CTR	189,440	189,440
684	ADVANCED STUDIES-LUNAR & PLANETARY		
	AMES RESEARCH CTR	68,998	68,998
685	ADV STUDIES-GEOPHYSICS & ASTRONOMY		
	NASA HEADQUARTERS	402,132	402,132
701	SNAP-8 DEVELOPMENT PROJECT		
	LEWIS RESEARCH CTR	10,000	10,000
708	SMALL BIOTECHNOLOGY FLIGHTS/LIQUID		
	AMES RESEARCH CTR	757,248	
	FLIGHT RESEARCH CTR	17,050	
	ELECTRONICS RES CTR	28,875	803,173

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WHOLE DOLLARS

UPN / FPN	UNIQUE PROJECT TITLE / FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
709	SMALL SPACE VEHICLE FLIGHT PROJECT		
	LANGLEY RESEARCH CTR	12,115	
	GODDARD SPAC FLT CTR	9,000	21,115
718	NERVA		
	NASA HEADQUARTERS	177,065	177,065
720	SUPERSONIC AIRCRAFT TECHNOLOGY		
	LEWIS RESEARCH CTR	1,182,959	
	LANGLEY RESEARCH CTR	908,218	
	FLIGHT RESEARCH CTR	41,648	2,132,825
721	V/STOL AIRCRAFT TECHNOLOGY		
	NASA HEADQUARTERS	112,520	
	AMES RESEARCH CTR	118	
	LEWIS RESEARCH CTR	155,980	
	LANGLEY RESEARCH CTR	920,625	1,189,243
722	HYPERSONIC RAMJET EXPERIMENT		
	LANGLEY RESEARCH CTR	67,366	67,366
726	M-1 ENGINE DEVELOPMENT		
	LEWIS RESEARCH CTR	3,500	3,500

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WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
729	HYPERSONIC RESEARCH ENGINE		
	LANGLEY RESEARCH CTR	70,470	70,470
730	RAM C /RADIO ATTENUATN MEASURMNTS/		
	LANGLEY RESEARCH CTR	107,000	107,000
731	CHEMICAL ROCKET EXPER ENGINEERING		
	NASA HEADQUARTERS	12,021	
	LEWIS RESEARCH CTR	5,000	
	LANGLEY RESEARCH CTR	30,000	
	KENNEDY SPACE CENTER	181,139	228,160
736	GEN AVIATION AIRCRAFT TECH SUP RES		
	LANGLEY RESEARCH CTR	69,415	69,415
749	APOLLO APPL EXPERIMENT DEFIN /ART/		
	AMES RESEARCH CTR	41,000	41,000
797	COMMON USE SVC CARRIER ACCOUNT-OART		
	AMES RESEARCH CTR	38,662	
	ELECTRONICS RES CTR	74,250	112,912

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WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
803	SURVEYOR		
	GODDARD SPAC FLT CTR	198,886	198,886
806	MARINER A /FOR LIQUIDATN ONLY/		
	GODDARD SPAC FLT CTR	50,000	50,000
807	MARINER B /LIQUIDATION ONLY/		
	GODDARD SPAC FLT CTR	22,500	22,500
808	MARINER-MARS 1964		
	NASA HEADQUARTERS	461,713	461,713
811	PIONEER INTERN QUIET SUN YR		
	NASA HEADQUARTERS	132,776	
	AMES RESEARCH CTR	9,865,284	
	GODDARD SPAC FLT CTR	15,000	10,013,060
814	LUNAR ORBITER		
	NASA HEADQUARTERS	31,287	31,287
815	VIKING		
	NASA HEADQUARTERS	118,375	118,375

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
817	MARINER-VENUS 1967		
	NASA HEADQUARTERS	445,910	445,910
818	VOYAGER		
	MARSHALL SPACFLT CTR	29,984	29,984
821	ORBITING SOLAR OBSERVATORIES		
	NASA HEADQUARTERS	775,339	
	GODDARD SPAC FLT CTR	15,544,782	16,320,121
822	ADV ORBITING SOLAR OBSERVATORIES		
	NASA HEADQUARTERS	39,000	
	GODDARD SPAC FLT CTR	242,339	
	MARSHALL SPACFLT CTR	791,758	1,073,097
831	ORBITING ASTRONOMICAL OBSERVATORIES		
	NASA HEADQUARTERS	2,668,074	
	GODDARD SPAC FLT CTR	24,089,156	26,757,230
841	ORBITING GEOPHYSICAL OBSERVATORIES		
	NASA HEADQUARTERS	480,809	
	GODDARD SPAC FLT CTR	25,471,427	25,952,236

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN / FPN	UNIQUE PROJECT TITLE / FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
848	RETURNED LUNAR SAMPLE ANALYSIS		
	NASA HEADQUARTERS	1,378,893	
	MANNED SPACECRFT CTR	955,547	2,334,440
849	APOLLO APPL EXPERIMENT DEFIN /SSA/		
	NASA HEADQUARTERS	3,998,650	
	AMES RESEARCH CTR	497,650	
	GODDARD SPAC FLT CTR	45,000	
	MARSHALL SPACFLT CTR	297,029	
	MANNED SPACECRFT CTR	253,529	5,091,858
851	ENERGETIC PARTICLES EXPLORERS		
	NASA HEADQUARTERS	717,298	
	GODDARD SPAC FLT CTR	859,615	1,576,913
852	ATMOSPHERE EXPLORERS		
	GODDARD SPAC FLT CTR	193,439	193,439
853	IONOSPHERE EXPLORERS		
	GODDARD SPAC FLT CTR	3,000	3,000
855	GEODETIC SATELLITES		
	NASA HEADQUARTERS	444,670	
	ELECTRONICS RES CTR	75,000	
	GODDARD SPAC FLT CTR	211,100	730,770

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
856	SUNBLAZER		
	NASA HEADQUARTERS	359,175	359,175
857	SMALL SCIENTIFIC SATELLITES (SSS)		
	GODDARD SPAC FLT CTR	261,000	261,000
859	UNIVERSITY EXPLORERS /RICE UNIV/		
	WALLOPS STATION	4,049,999	4,049,999
861	INTERPLANETARY EXPLORERS /IMP/		
	GODDARD SPAC FLT CTR	10,052,295	10,052,295
863	AIR DENSITY/INJUN EXPLORERS		
	LANGLEY RESEARCH CTR	4,493,773	4,493,773
866	MANNED SATELLITE SCIENCE		
	NASA HEADQUARTERS	1,320,941	
	MANNED SPACECRFT CTR	123,860	1,444,801
867	MANNED LUNAR SCIENCE		
	NASA HEADQUARTERS	5,935	
	MANNED SPACECRFT CTR	101,833	107,768

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN / FPN	UNIQUE PROJECT TITLE / FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
870	UNITED KINGDOM SATELLITES		
	GODDARD SPAC FLT CTR	10,000	10,000
872	ISIS/INTERNTL SAT-IONOSPHERE STUDY		
	GODDARD SPAC FLT CTR	1,596,848	1,596,848
873	BEACON EXPLORERS		
	NASA HEADQUARTERS	729,881	
	GODDARD SPAC FLT CTR	28,000	757,881
874	GERMAN RESEARCH SATELLITE		
	NASA HEADQUARTERS	39,016	39,016
877	RADIO ASTRONOMY EXPLORERS		
	NASA HEADQUARTERS	394,949	
	GODDARD SPAC FLT CTR	117,359	512,308
879	SOUNDING ROCKETS		
	NASA HEADQUARTERS	20,134,848	
	AMES RESEARCH CTR	16,741	
	LEWIS RESEARCH CTR	68,528	
	LANGLEY RESEARCH CTR	8,678	
	GODDARD SPAC FLT CTR	8,514,775	28,743,570
881	INFRARED SPECTROSCOPY /LIQUIDATION		
	NASA HEADQUARTERS	862,639	862,639

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
883	BIOSATELLITES		
	AMES RESEARCH CTR	14,740,784	14,740,784
890	SCOUT DEVELOPMENT /LIQUIDATN ONLY/		
	NASA HEADQUARTERS	240	240
891	CENTAUR DEVELOPMENT		
	GODDARD SPAC FLT CTR	156,000	156,000
892	DELTA DEVELOPMENT /LIQUIDATN ONLY/		
	GODDARD SPAC FLT CTR	15,000	15,000
894	JOINT ITALIAN/UNITED STATES PROJECT		
	GODDARD SPAC FLT CTR	276,720	276,720
897	GAMMA RAY ASTRONMY SAT /LIQUIDATN/		
	NASA HEADQUARTERS	122,526	122,526
903	GEMINI SUPPORTING DEVELOPMENT		
	NASA HEADQUARTERS	50,000	
	MANNED SPACECRFT CTR	229,485	279,485

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN FPN	UNIQUE PROJECT TITLE FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
904	APOLLO SUPPORTING DEVELOPMENT		
	NASA HEADQUARTERS	269,967	
	GODDARD SPAC FLT CTR	60,000	
	MARSHALL SPACFLT CTR	558,388	
	MANNED SPACECRFT CTR	3,490,839	
	KENNEDY SPACE CENTER	415,563	4,794,757
905	APOLLO APPLICATIONS SUPPORTING DEV		
	NASA HEADQUARTERS	73,799	
	ELECTRONICS RES CTR	1,600,000	
	MARSHALL SPACFLT CTR	826,858	
	MANNED SPACECRFT CTR	2,146,133	4,646,790
908	ADV MANNED MISSIONS SUPP DEVELOP		
	NASA HEADQUARTERS	7,093	
	MARSHALL SPACFLT CTR	282,063	
	MANNED SPACECRFT CTR	2,432,183	2,721,339
9101	EQUIPMENT AND INSTRUMENTATION		
	GODDARD SPAC FLT CTR	195,000	195,000
9106	DATA ACQUISITION FACILITY		
	GODDARD SPAC FLT CTR	1,534,208	1,534,208

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN / FPN	UNIQUE PROJECT TITLE / FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
911	MERCURY /FOR LIQUIDATION ONLY/		
	NASA HEADQUARTERS	292,284	
	LANGLEY RESEARCH CTR	1,090,000	
	MANNED SPACECRFT CTR	153,087	1,535,371
912	MANNED ONE-DAY MISSION /LIQUIDATN/		
	MANNED SPACECRFT CTR	33,454	33,454
913	GEMINI SPACECRAFT		
	MANNED SPACECRFT CTR	138,472	138,472
914	APOLLO SPACECRAFT		
	NASA HEADQUARTERS	202,029	
	AMES RESEARCH CTR	15,532	
	GODDARD SPAC FLT CTR	4,000	
	MARSHALL SPACFLT CTR	125,000	
	MANNED SPACECRFT CTR	138,439,520	138,786,081
921	MISSION CONTROL SYSTEMS		
	MANNED SPACECRFT CTR	429,606	429,606
923	GEMINI SUPPORT		
	GODDARD SPAC FLT CTR	15,000	
	MANNED SPACECRFT CTR	1,375,566	1,390,566

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN / FPN	UNIQUE PROJECT TITLE / FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
924	APOLLO SPACE OPERATIONS		
	MANNED SPACECRFT CTR	160,856	160,856
931	SATURN I VEHICLE		
	MARSHALL SPACFLT CTR	973,657	973,657
932	SATURN 1B VEHICLE		
	MARSHALL SPACFLT CTR	752,572	752,572
933	SATURN V VEHICLE		
	MARSHALL SPACFLT CTR	7,916,688	7,916,688
940	ENGINE DEVELOPMENT		
	MARSHALL SPACFLT CTR	22,811	22,811
942	APOLLO APPLICATIONS DESIGN & DEV		
	NASA HEADQUARTERS	1,405,465	
	GODDARD SPAC FLT CTR	170,000	
	MANNED SPACECRFT CTR	2,481,824	4,057,289
945	MSF EXPERIMENT DEFINITION		
	NASA HEADQUARTERS	2,557,492	
	AMES RESEARCH CTR	123,095	
	MARSHALL SPACFLT CTR	347,678	
	MANNED SPACECRFT CTR	1,577,493	4,605,758

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN / FPN	UNIQUE PROJECT TITLE / FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
948	AAP EXPERIMENT DEVELOPMENT		
	AMES RESEARCH CTR	42,599	
	GODDARD SPAC FLT CTR	5,509	
	MARSHALL SPACFLT CTR	13,984,715	
	MANNED SPACECRFT CTR	879,135	14,911,958
949	APOLLO APPLICATIONS EXPERIMENT DEF		
	NASA HEADQUARTERS	33,377	
	MANNED SPACECRFT CTR	307,037	340,414
950	LAUNCH OPERATIONS SUPPORT		
	KENNEDY SPACE CENTER	72,000	72,000
961	AAP SPACECRAFT DEVELOPMENT		
	MANNED SPACECRFT CTR	771,642	771,642
964	SATURN I WORKSHOP		
	MARSHALL SPACFLT CTR	182,457	182,457
965	APOLLO TELESCOPE MOUNT		
	MARSHALL SPACFLT CTR	4,990	4,990
975	SPACE STATION		
	MARSHALL SPACFLT CTR	40,000	
	MANNED SPACECRFT CTR	492,435	532,435

CUMULATIVE 1959 THROUGH JUNE 30, 1969

WHOLE DOLLARS

UPN / FPN	UNIQUE PROJECT TITLE / FUNDING INSTALLATION	OBLIGATIONS	UNIQUE PROJECT TOTALS
981	ADVANCED STUDIES-MANNED SPACE FLGT		
	NASA HEADQUARTERS	1,041,177	
	MARSHALL SPACFLT CTR	66,083	
	MANNED SPACECRFT CTR	309,063	1,416,323
997	COMMON USE SVC CARRIER ACCOUNT-OMSF		
	MANNED SPACECRFT CTR	473,335	473,335
	GRAND TOTAL		917,982,287

APPENDIX 1

DEFINITIONS, NOTATIONS AND ABBREVIATIONS

Carrier Account

Temporary holding account, pending final assignment of funds to proper unique project.

Division

Program Office major subelement responsible for particular scientific or technical area. A resources, control, or management group listed as a division indicates funds held in a carrier account.

FPN

Facilities project number. Four digits. Facilities equivalent of UPN.

Field

NASA Field Installation ("Field Center").

Funding Installation

Headquarters or any Field Installation.

Funding Organization

Headquarters Program Office, Program Office Division, or any Field Installation.

Liquidation

Denotes inactive unique projects. Only disbursements should be made against funds in this category.

Misc. - Hq.
Various Offices

Consolidated listing for Headquarters Staff Offices which fund relatively little university work and which do not report to one of the Program Offices.

Obligation

Amount of funds legally available to an institution through citation on a grant or contract signed on behalf of both the government and the institution.

Program Office

The four Headquarters Program Offices are: Office of Space Science and Applications (OSS&A); Office of Advanced Research and Technology (OART); Office of Manned Space Flight (OMSF); and Office of Tracking and Data Acquisition (OT&DA). For the purposes of the report, the Office of University Affairs (OUA) and the Office of Technology Utilization (OTU) are treated as Program Offices.

Project Research

All support, excluding Sustaining University Program funds. Includes on-board flight experiments, non-SUP facilities required for conducting the work, and dissemination of results and information resulting from NASA-sponsored efforts.

SRT

Supporting Research and Technology.

Sustaining Program

Sustaining University Program, managed by the Office of University Affairs. The Program is divided into three parts: Training (UPN 181), Facilities (UPN 182) and Research (UPN 183).

UPN

Unique Project Number. Numeric designator for unique project.

UPN 000

Numeric designator for consolidation of all UPN's less than 100. Funds in these low number UPN's are not earmarked for particular R&D categories.

Unique Project

Indication of broad scientific or technical area of endeavor, as described by NASA financial coding structure.

University Names

The style and arrangement of university names are in general conformance with government-wide standards, promulgated by the Committee on Academic Science and Engineering (C.A.S.E.) of the Federal Council for Science and Technology. Use of these standards simplifies comparison of NASA reports with reports issued by C.A.S.E., the National Science Foundation and the Office of Education.

APPENDIX 2

DISBURSEMENTS

Disbursements are funds actually paid out by the Treasury. However, the meaning of a particular disbursed amount is exceedingly complex. The next two sections review this complexity as background for the final section on using the tabular disbursement data.

Disbursements - Cumulative Table V

Disbursements and obligations become equal upon completion of all projects at an institution. Disbursements may lag obligations by relatively large amounts. Typical reasons are:

1. Obligations are reported promptly, whereas costs to the institution may not be reflected as disbursements for some time. Billing cycle lags, for instance, are a common cause.

2. Some projects are initially funded for more than one year at a time; subsequent disbursements, however, are made during the entire, multi-year period.

3. Large amounts are usually obligated late in the fiscal year. Disbursements against these obligations generally start after the year-end cut-off for reports in this series which cover a period ending on June 30.

Disbursements - Fiscal Year Table XV

If a university has received its first NASA project during a particular fiscal year, the disbursements will lag obligations for that year for the reasons noted above. For institutions recipient of prior year support, the disbursements may be very close to the obligations and, not uncommonly, exceed the obligations. Typical reasons for this effect are:

1. The year of disbursement is independent of the year of obligation.

2. For projects which started slowly, heavy disbursements began in the year subsequent to obligation.

3. When a year of heavy obligations is followed by a year of light obligations, most of the disbursements in the light year are against funds obligated in the year of heavy obligations.

It should be noted that the factors which cause the tables to show disbursements exceeding obligations are simultaneously being

counteracted by the factors discussed above in relation to the Cum. Table V.

Using Disbursement Data

Disbursement data contained in Cum. Table V must be interpreted with extreme care. On a cumulative basis, disbursements lag markedly behind obligations; hence, data for a particular point in time will show a difference - sometimes substantial - between the two figures. Even for large differences, the cumulative data in this report are insufficient to permit the conclusion that an institution is over-funded or that a reduction in expenditures may be imposed without deleterious effects on the institution.

Valid conclusions on this point can be drawn only on the basis of thorough analyses, on a project-by-project basis, of the technical progress, billing and paying procedures, and the financial status of the work at an institution.

On the other hand, if cumulative disbursements and obligations are very close, it is reasonable to suspect that NASA support to the institution is declining or will phase out unless additional new obligations are made promptly. Cumulative disbursement data are presented primarily as an aid in detecting such situations, particularly when used in conjunction with the fiscal year disbursement data (FY Table XV).

Disbursement data in FY Table XV are extremely susceptible to misinterpretation, especially as disbursements reported are often in excess of obligations. The primary reason for presenting the fiscal year disbursement data is that the total at the end of the table gives the amount of money actually paid out by the Treasury -- "expenditures" -- during the year. For a university whose obligations are very close to its disbursements in the Cum. Table V, a FY Table XV indication of disbursements well ahead of obligations provides strengthened evidence that the institution may be phasing out of the university program.

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APPENDIX 3

DATA BASE

The source of the data presented in this report is NASA's Status of Contracts and Grants (SCAG) system, operated by the Financial Management Division and the Procurement Office. The SCAG system includes elaborate arrangements with Field Installations for obtaining fiscal and procurement data on all NASA obligations and for reviewing and editing the received data for correction of reporting errors. The Office of University Affairs is not a prime participant in this accumulation of data by the SCAG system.

As a starting point OUA makes use of the complete, assembled SCAG master file which contains data on NASA's financial dealings with all classes of performers. The OUA system, however, selects from the SCAG master file information descriptive only of obligations to educational institutions. Prior to reports production, each action selected from SCAG is reviewed for correctness and to ensure it meets the inclusion criteria.

The OUA system arranges the selected financial or procurement-oriented data to meet the needs of program managers. For instance, SCAG distributes obligations by place of performance: the OUA system distributes by performing institution.

The SCAG data base does not contain sufficient information to differentiate among the Headquarters staff offices which only occasionally fund university work; the same applies to the fund sources used by these offices. Hence, groups coded "Cog. Office 030" are consolidated as "Misc. Hq." while UPN's under 100 are consolidated as "UPN 000, Miscellaneous Research." The bulk of the obligations, however, are readily identifiable as to source. These are distributed within the various tables based on the funding installation, Cog. Office and UPN as reported in SCAG. There are certain approximations in these distributions due to the numerous changes in NASA's organizational and fiscal coding structures since 1959; the major effects occur in the cumulative report, Tables II and V-VIII. The most frequent change situation consists of abolishment of an organization element, followed by conversion of its Cog. Office and UPN codings to the codings of successor elements.

The unique project names and the Congressional district identifications are taken directly from the SCAG data base.

The various errors detected during the previously described validation of SCAG cannot be immediately corrected in the Master File in which the errors first occur; they are corrected in the next update of the file. Therefore, there are residual errors, however minor, in each SCAG Master File. The OUA system is designed to allow correction of certain SCAG errors, pending the next update of SCAG. Through this process the OUA reports are more accurate than the data bank from which they are prepared.

NASA-HQ